



Afdelingen for Bærende Konstruktioner
Department of Structural Engineering
Danmarks Tekniske Højskole · Technical University of Denmark

Creep and Shrinkage of High-Strength
Concrete; A testreport
Appendix D

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Serie R

No 293

1992

Creep and shrinkage of high-strength-concrete

A test report

APPENDIX D

Creep and Shrinkage of High-Strength Concrete; A testreport; Appendix

D

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Tryk:

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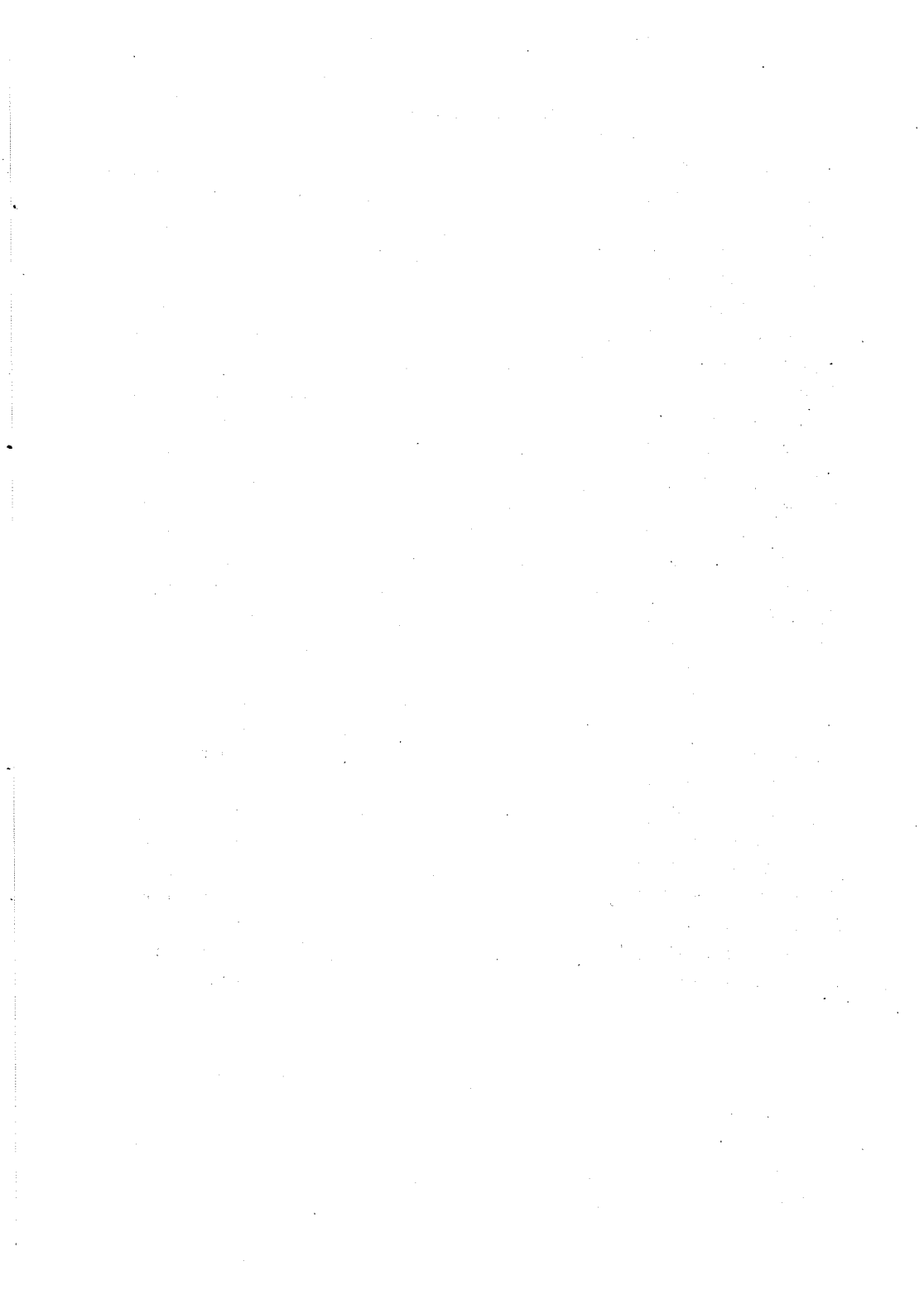
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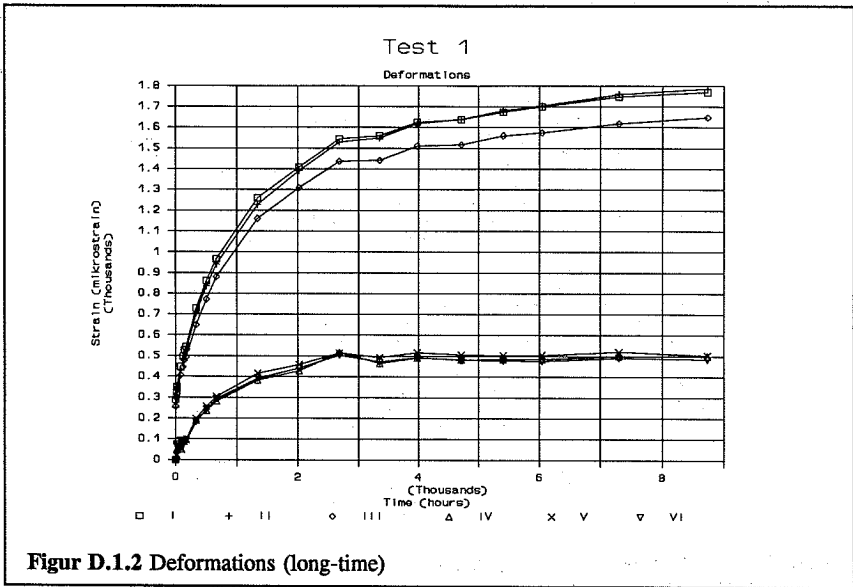
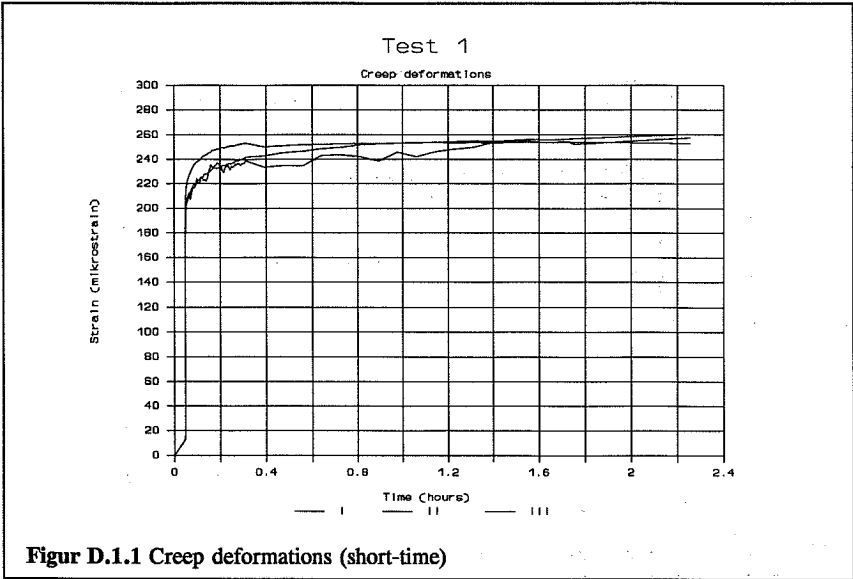
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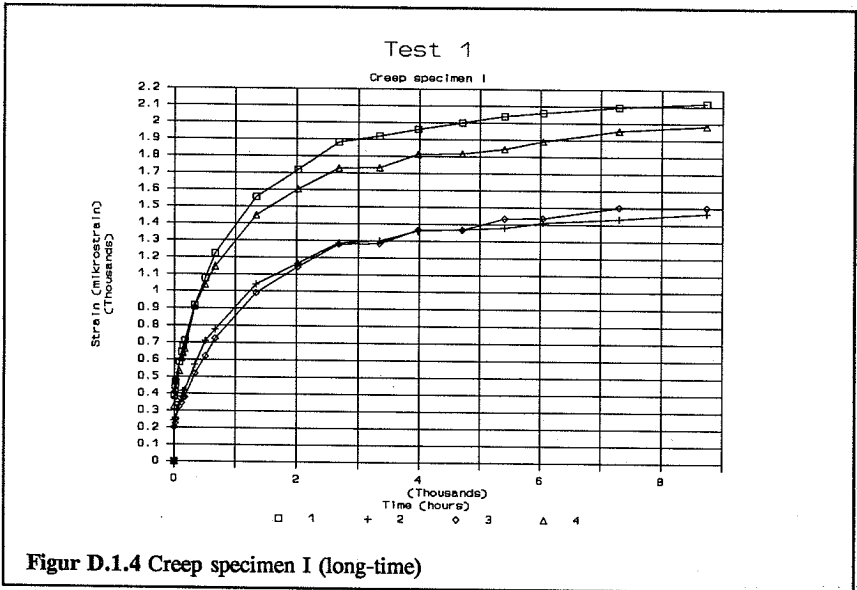
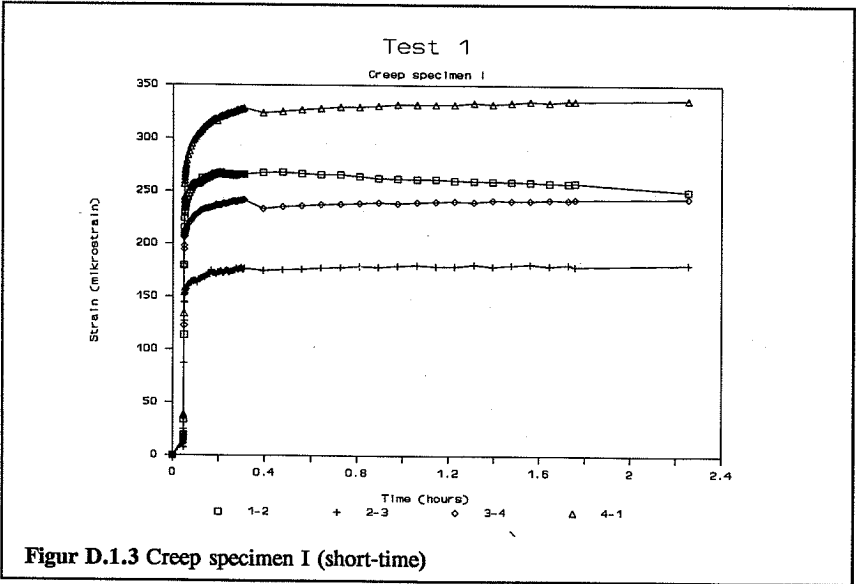
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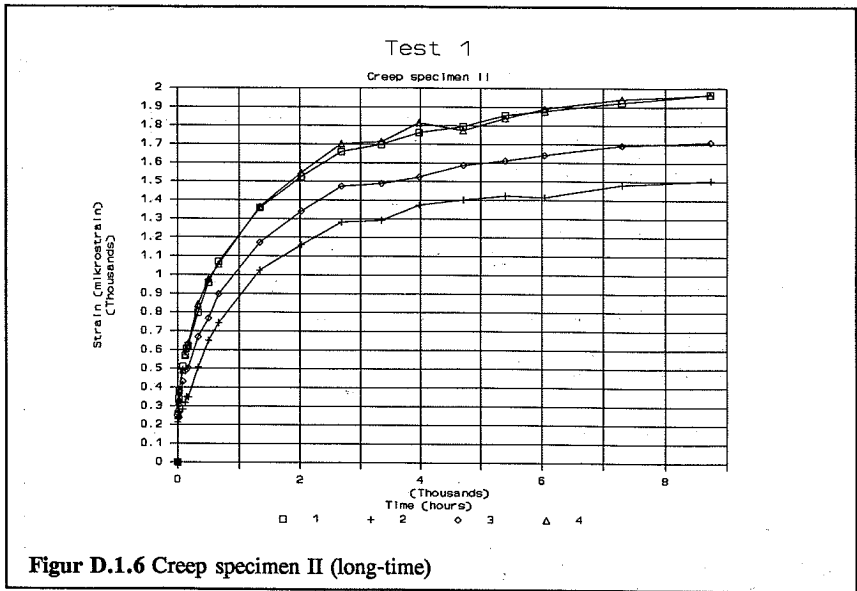
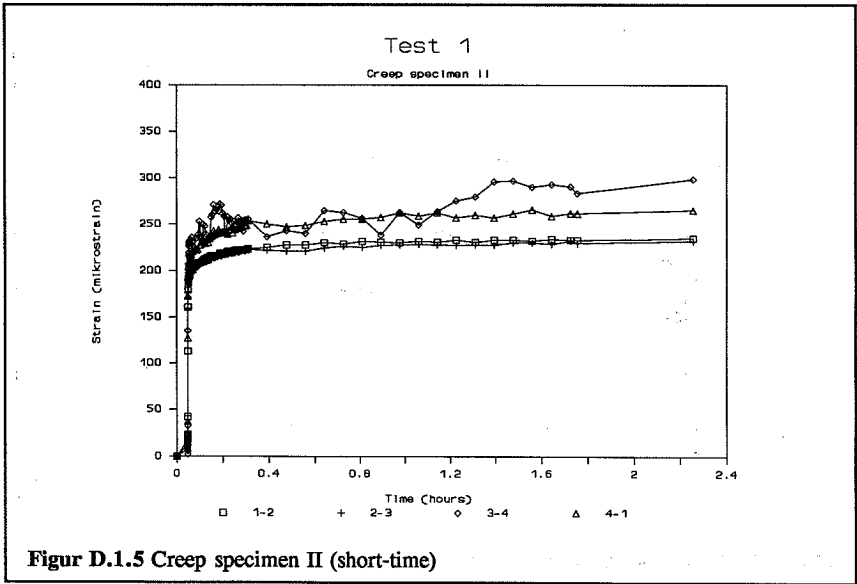
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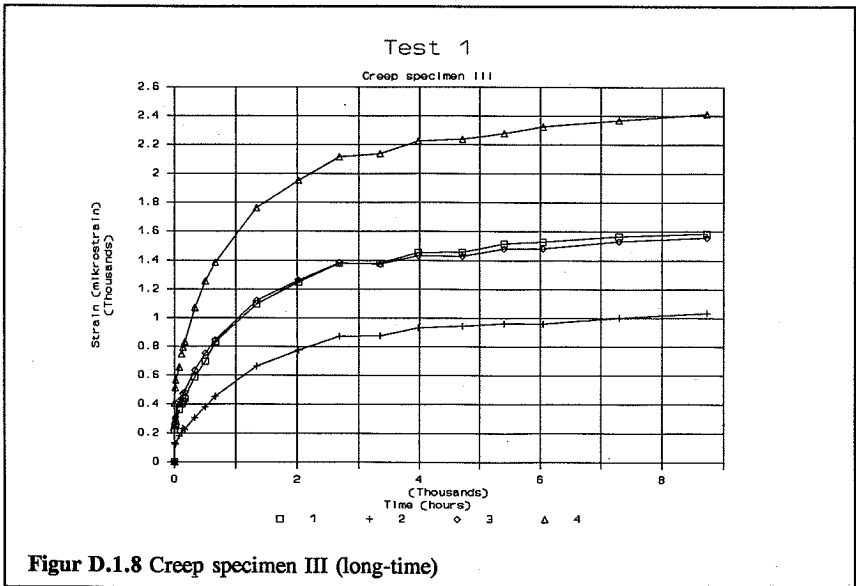
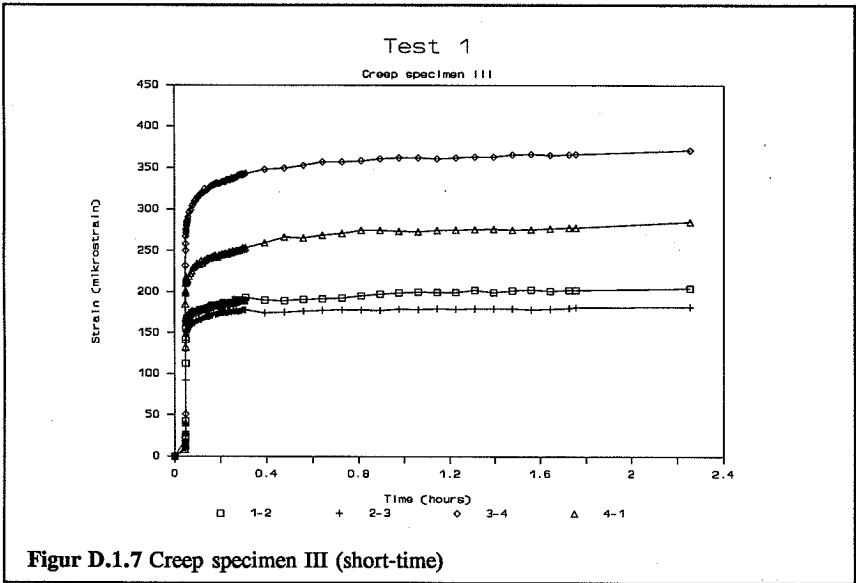
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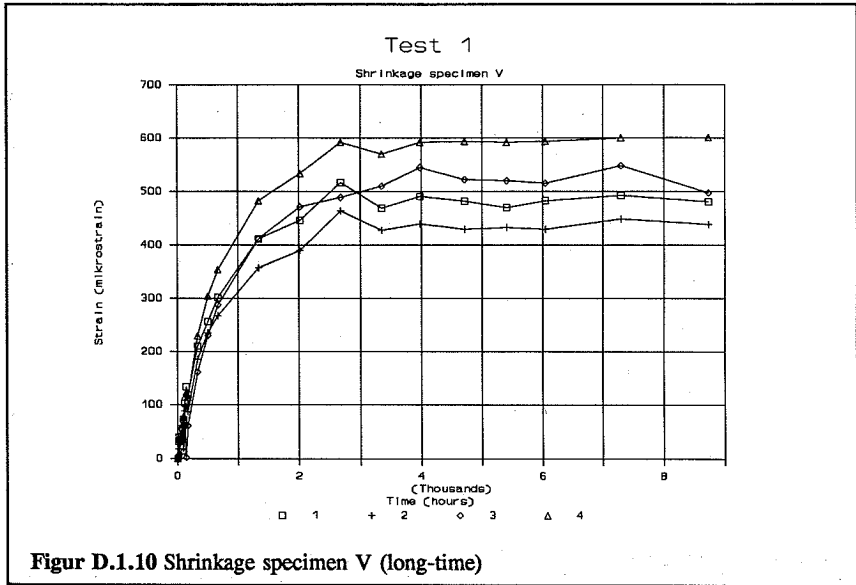
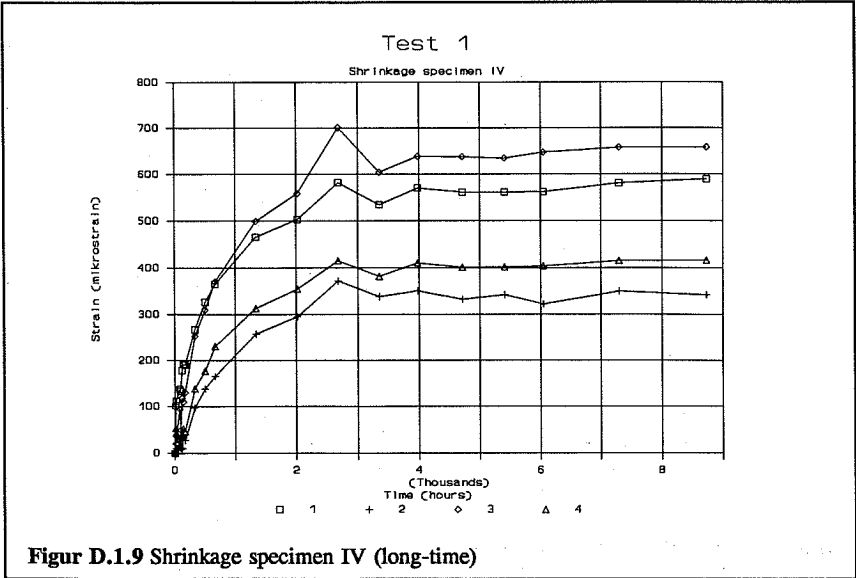


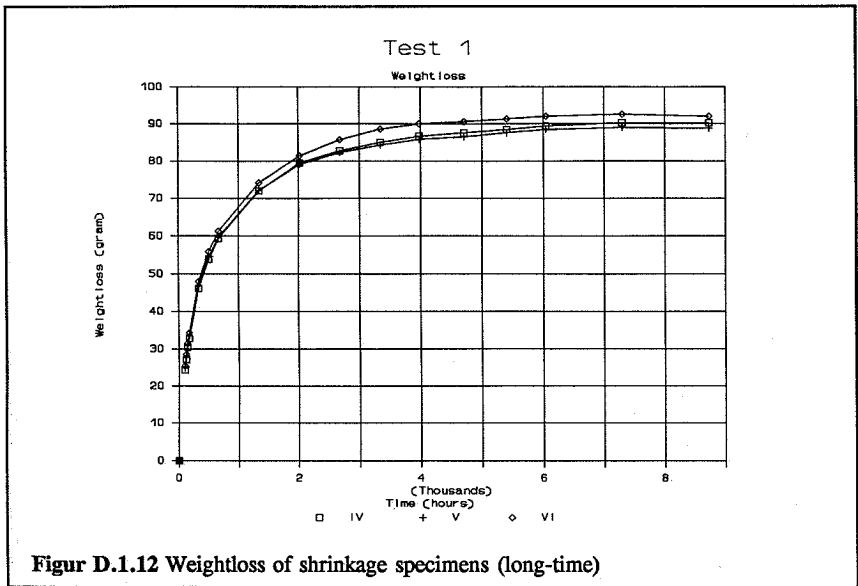
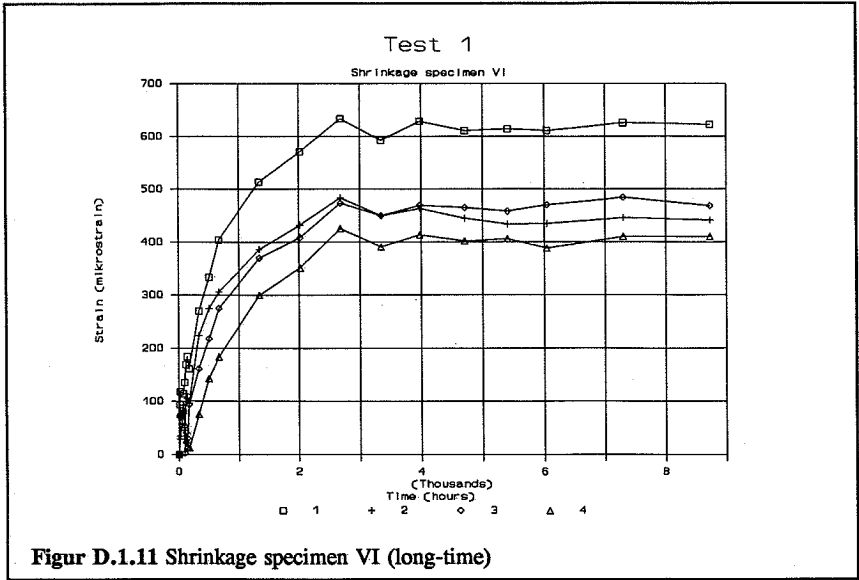


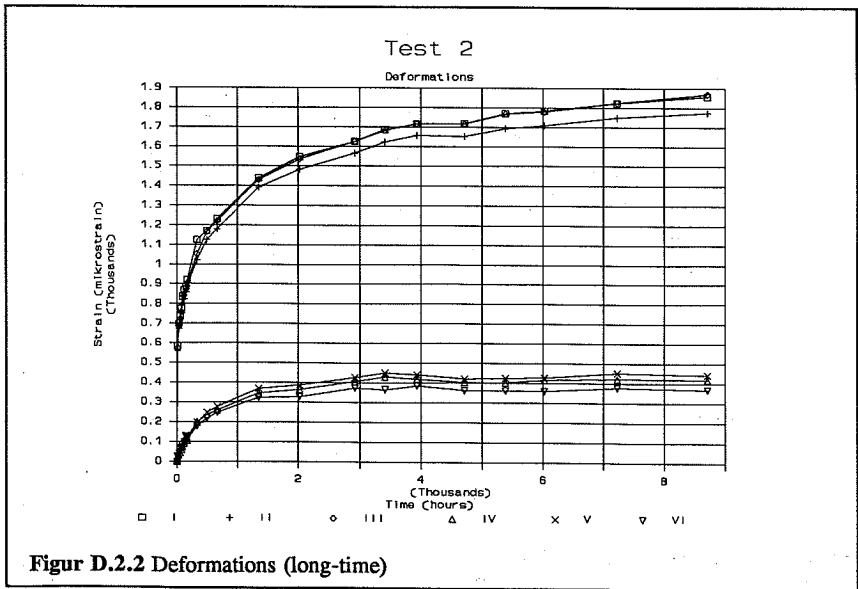
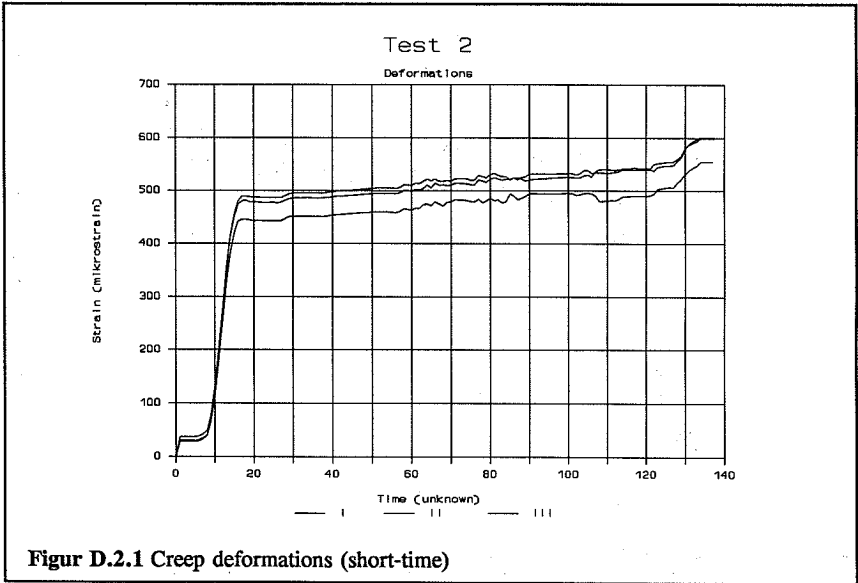


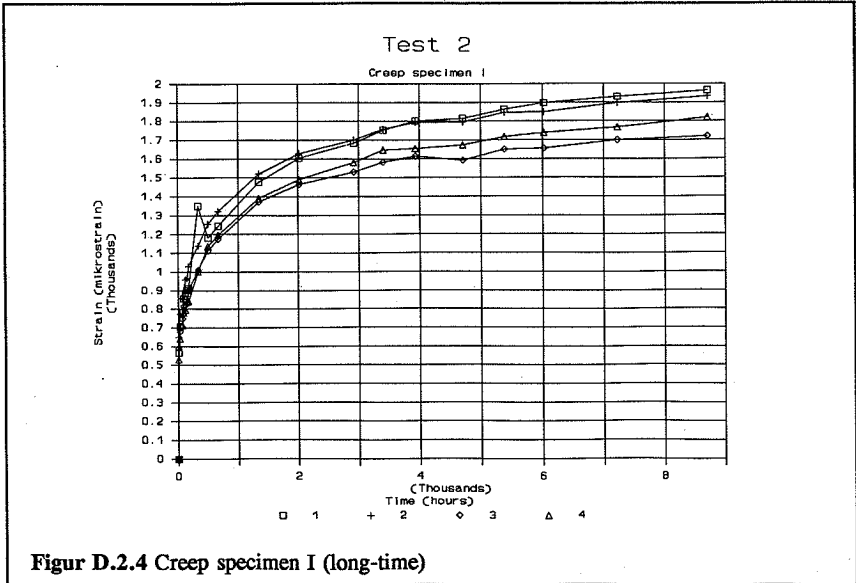
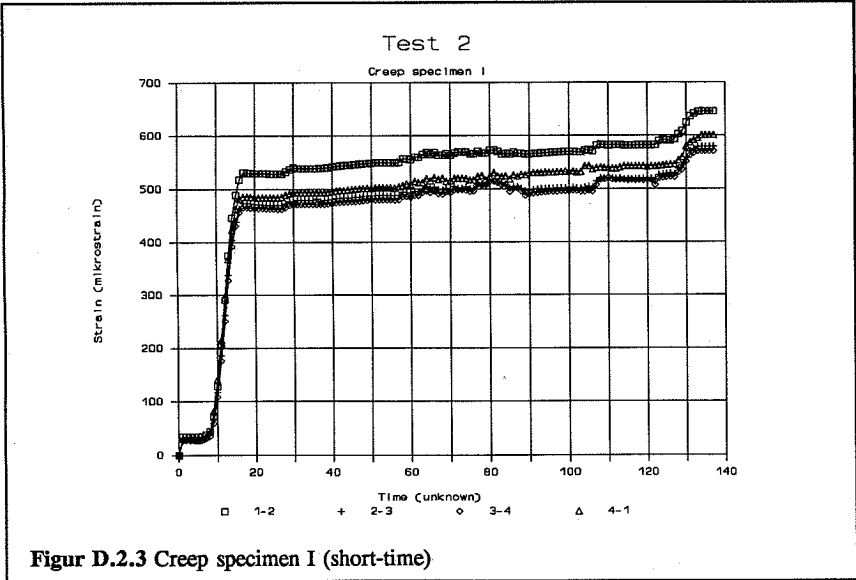


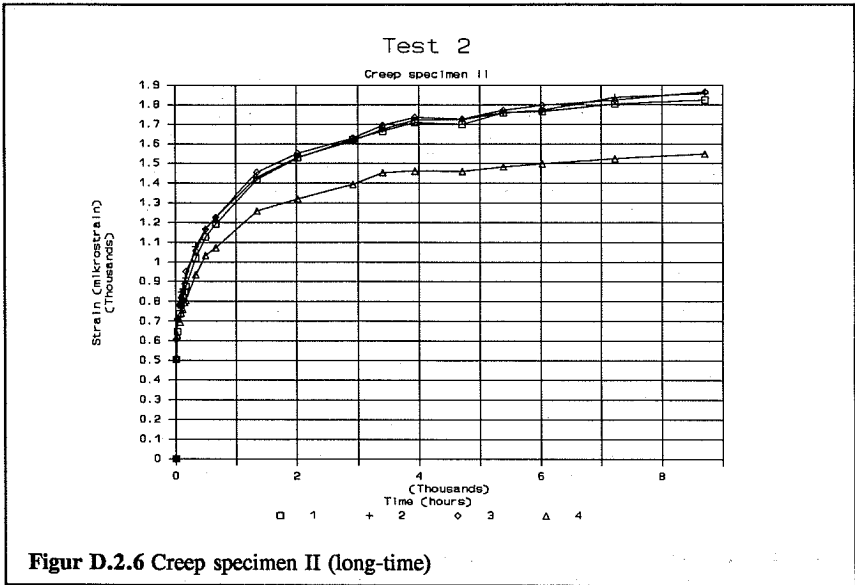
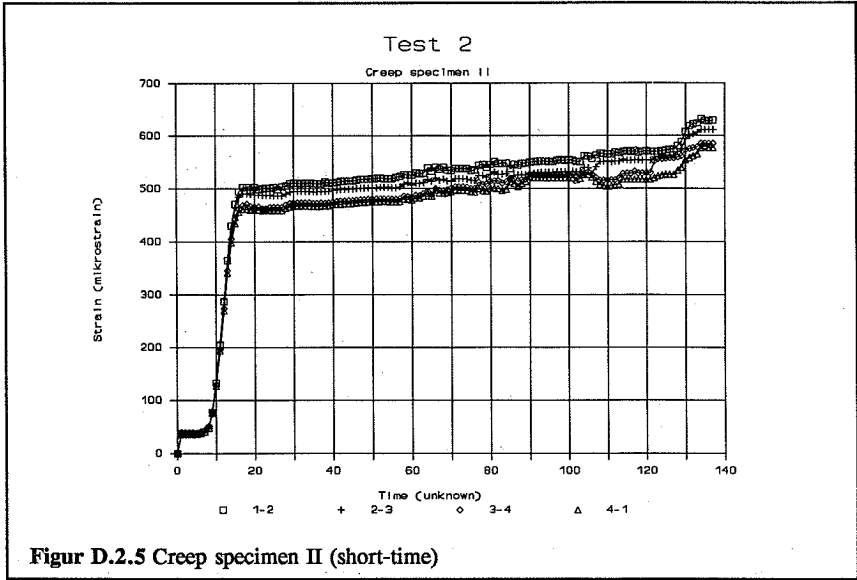


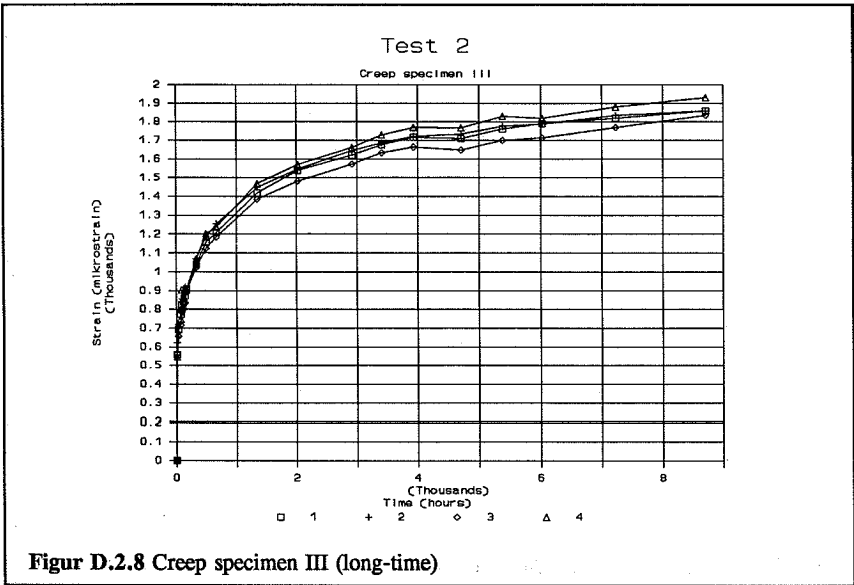
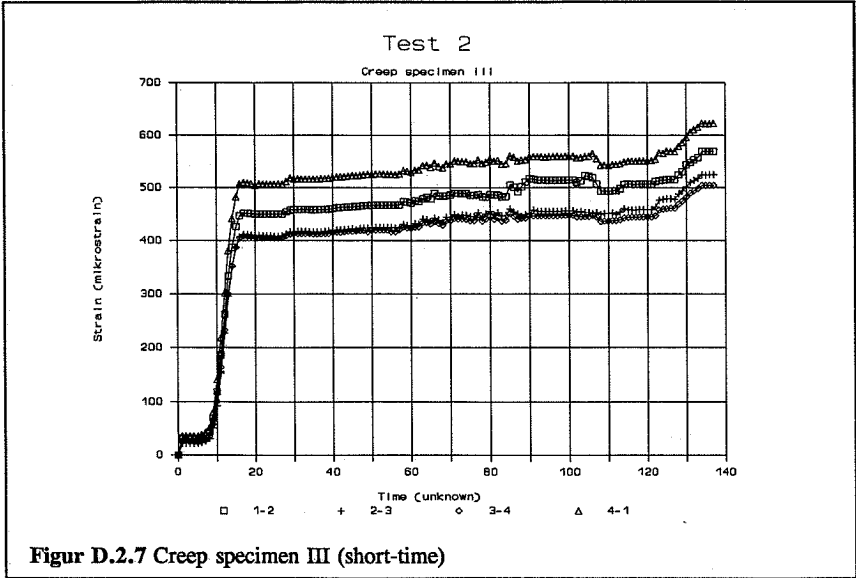












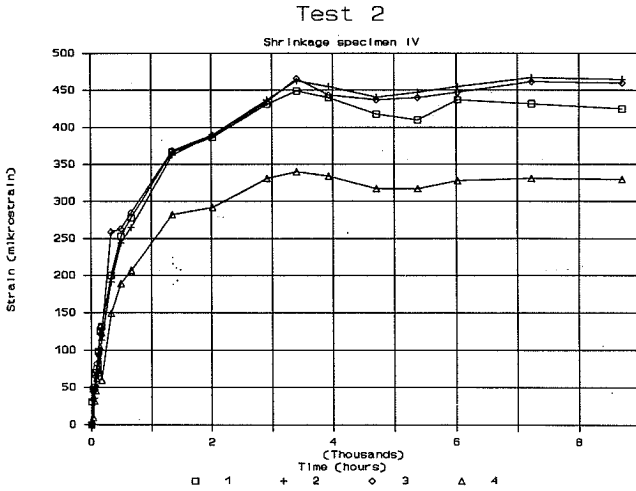


Figure D.2.9 Shrinkage specimen IV (long-time)

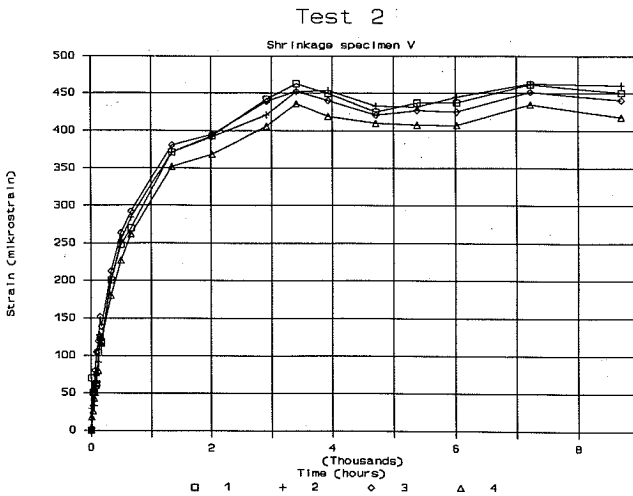
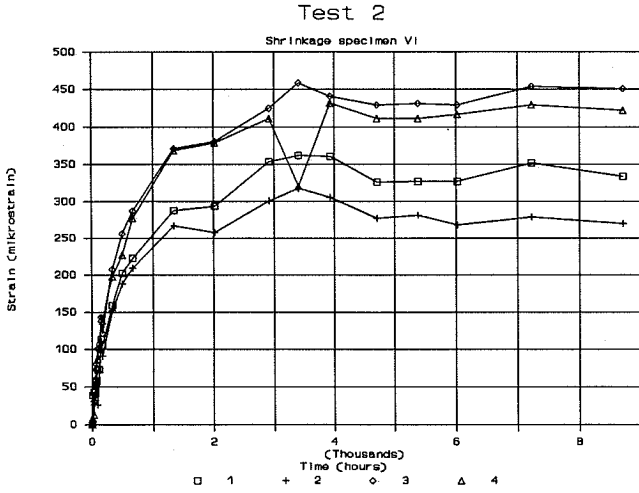
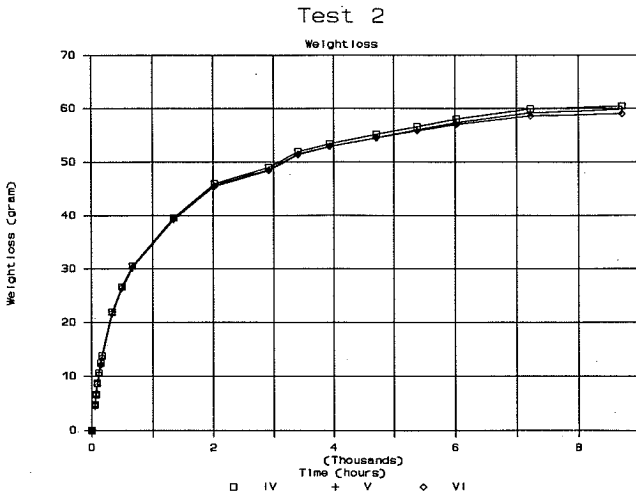


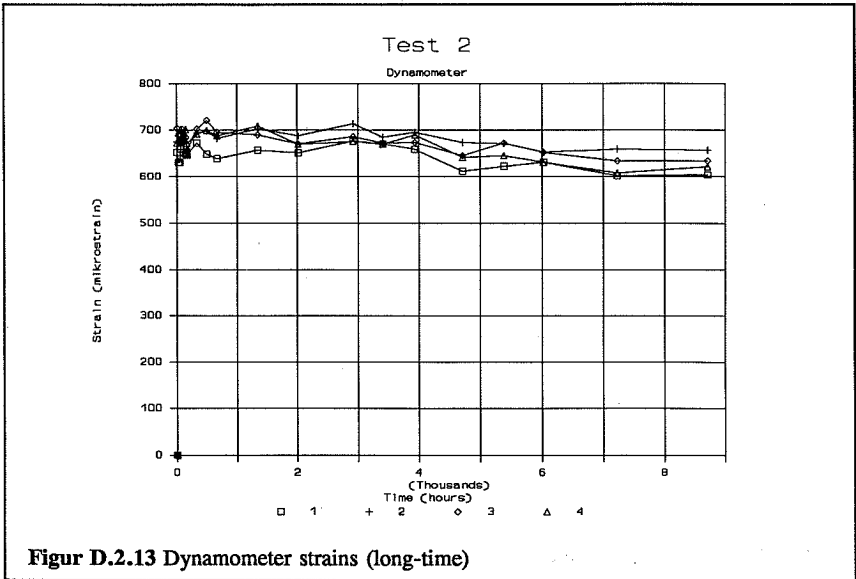
Figure D.2.10 Shrinkage specimen V (long-time)



Figur D.2.11 Shrinkage specimen VI (long-time)



Figur D.2.12 Weightloss of shrinkage specimens (long-time)



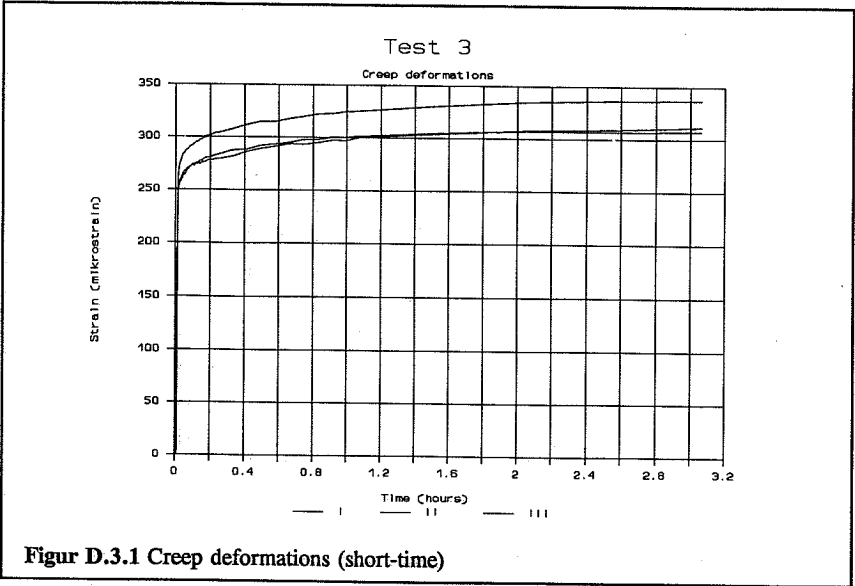


Figure D.3.1 Creep deformations (short-time)

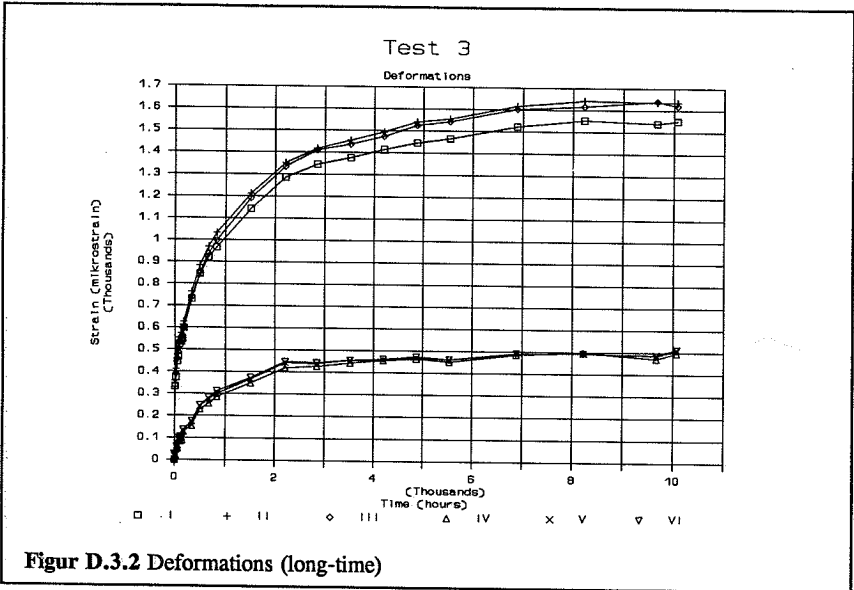
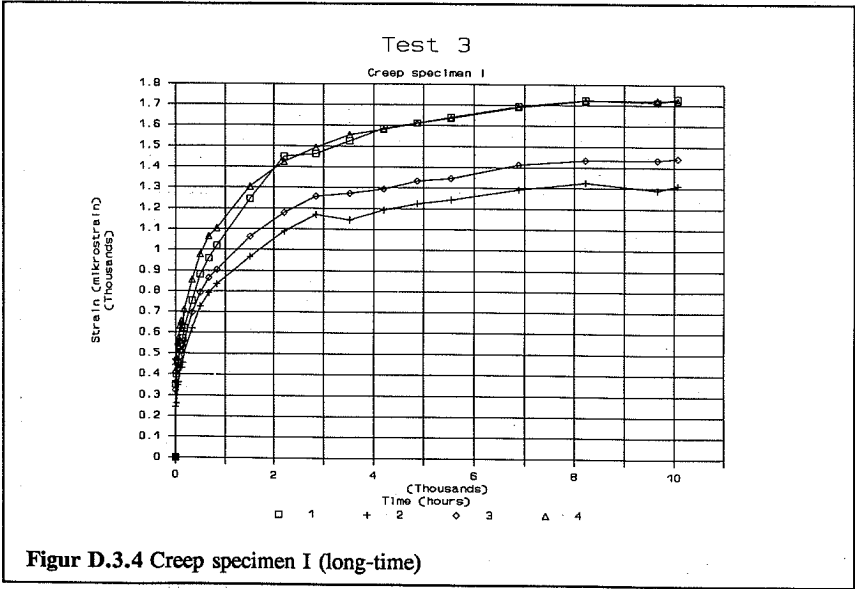
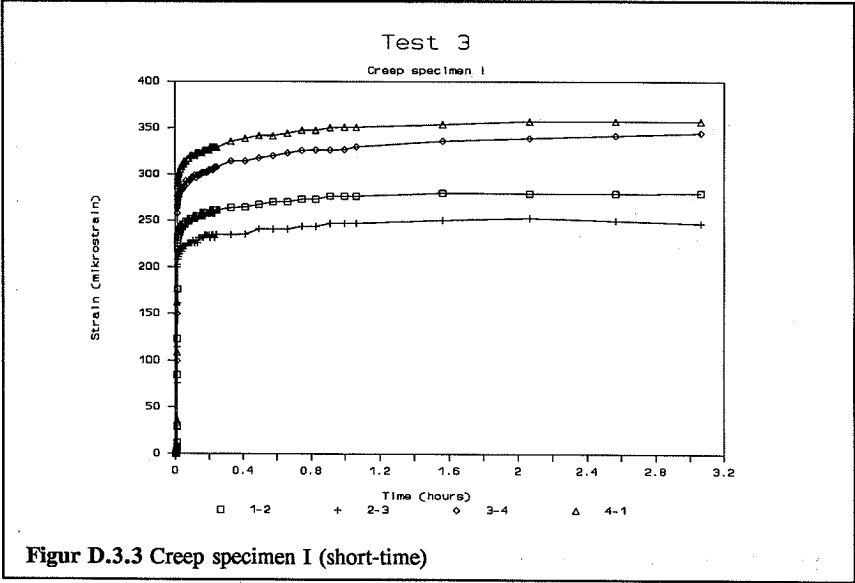
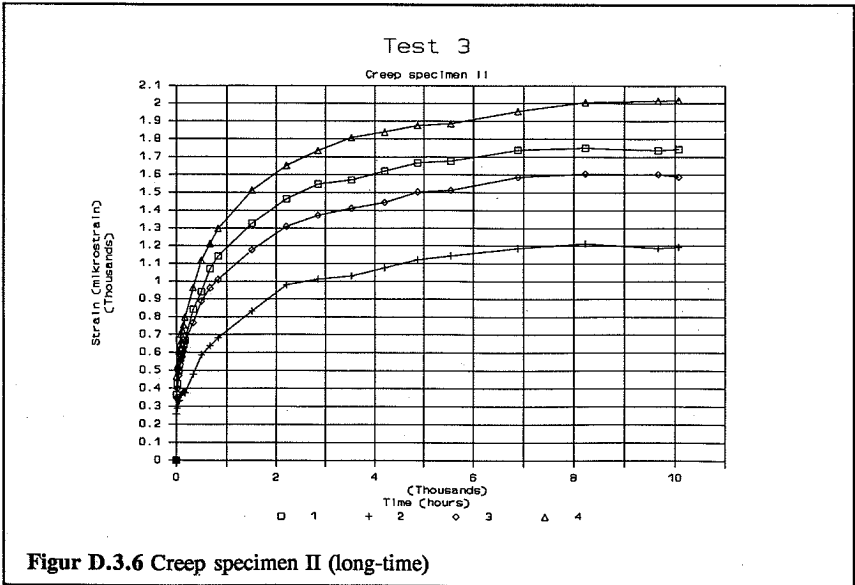
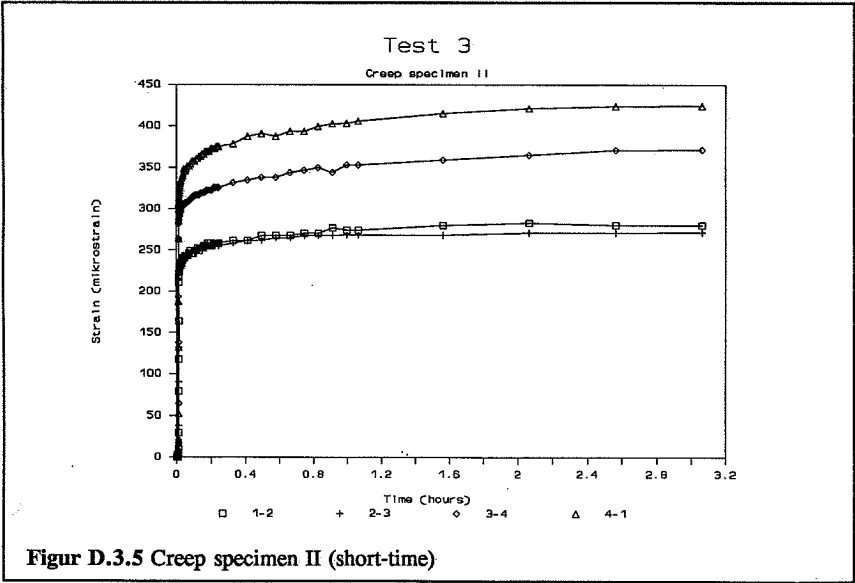
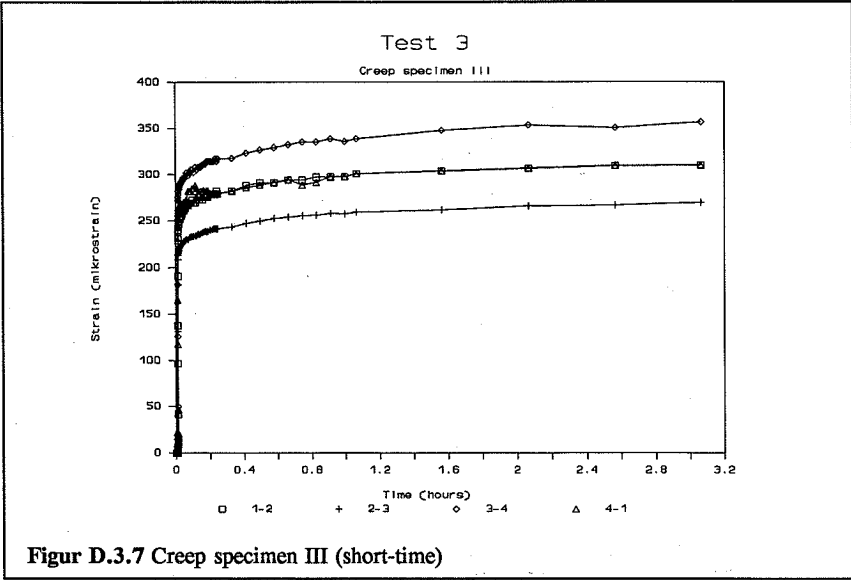


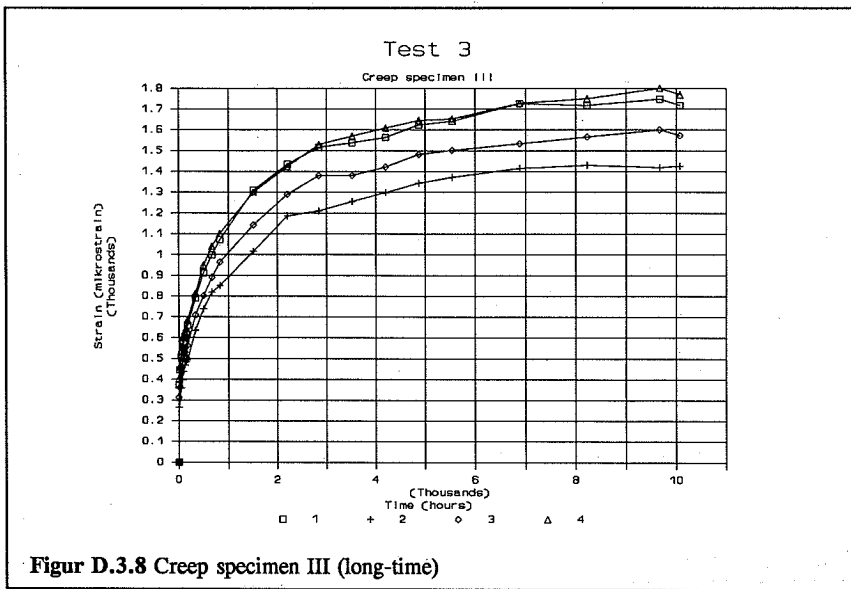
Figure D.3.2 Deformations (long-time)



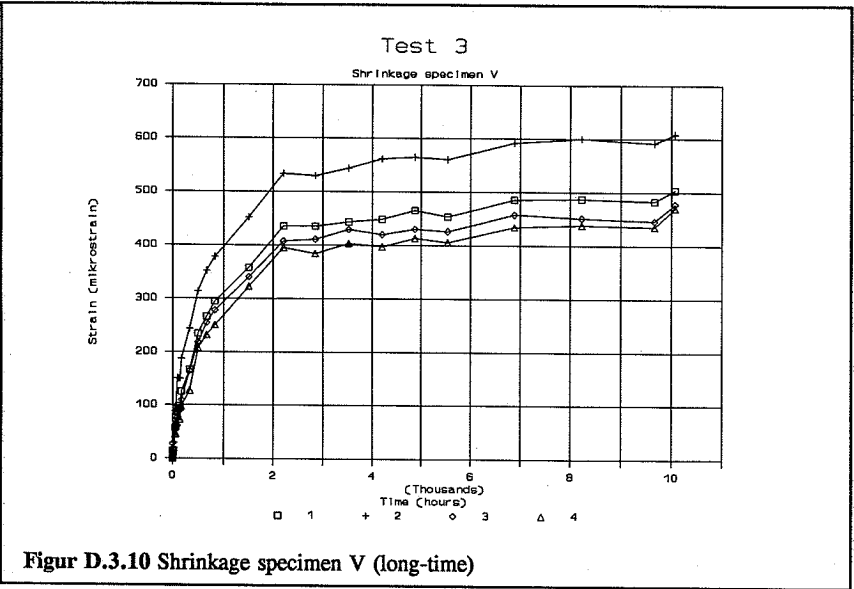
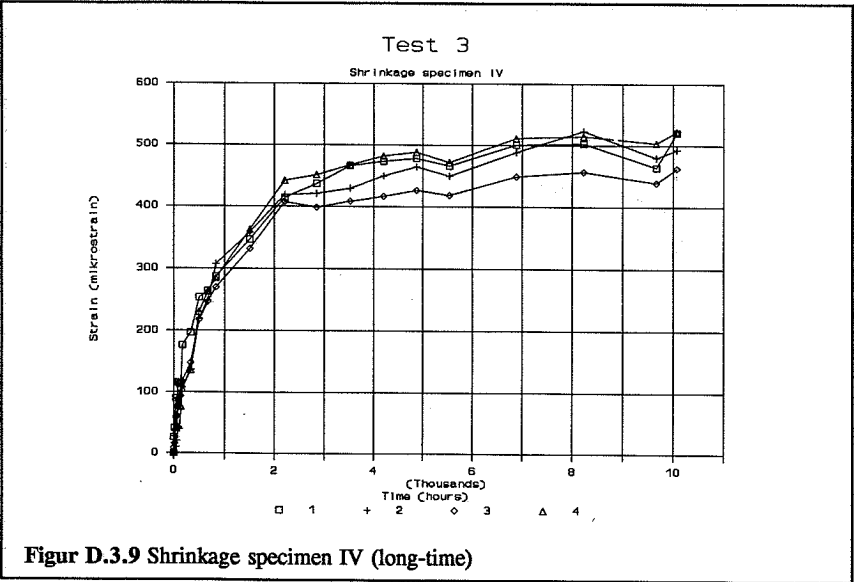




Figur D.3.7 Creep specimen III (short-time)



Figur D.3.8 Creep specimen III (long-time)



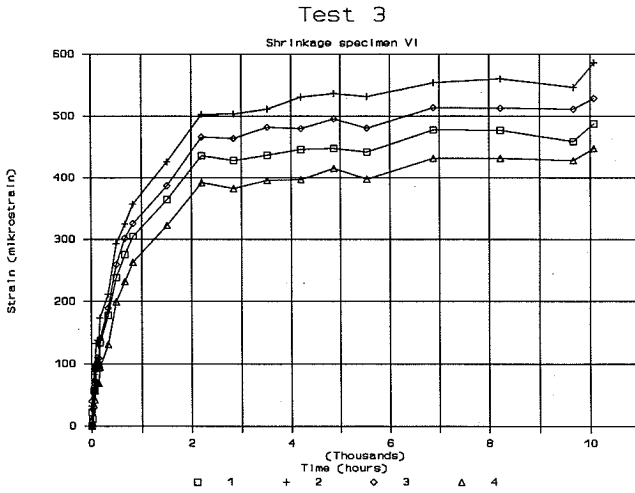


Figure D.3.11 Shrinkage specimen VI (long-time)

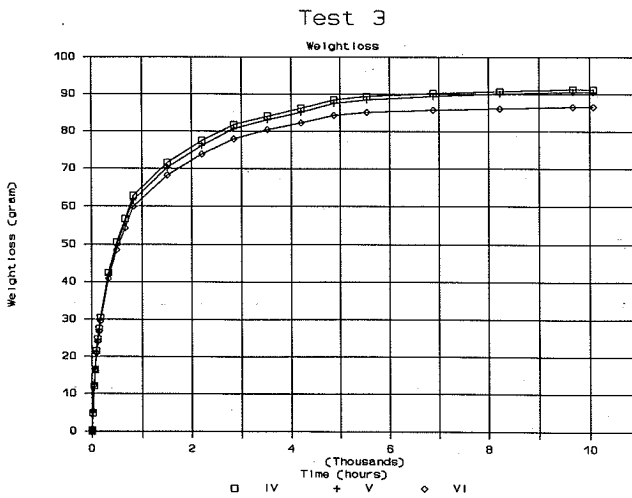
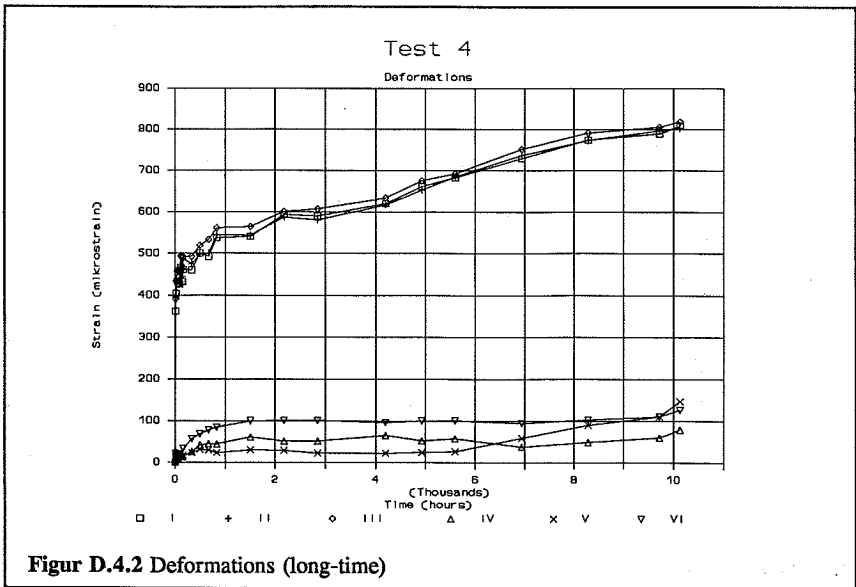
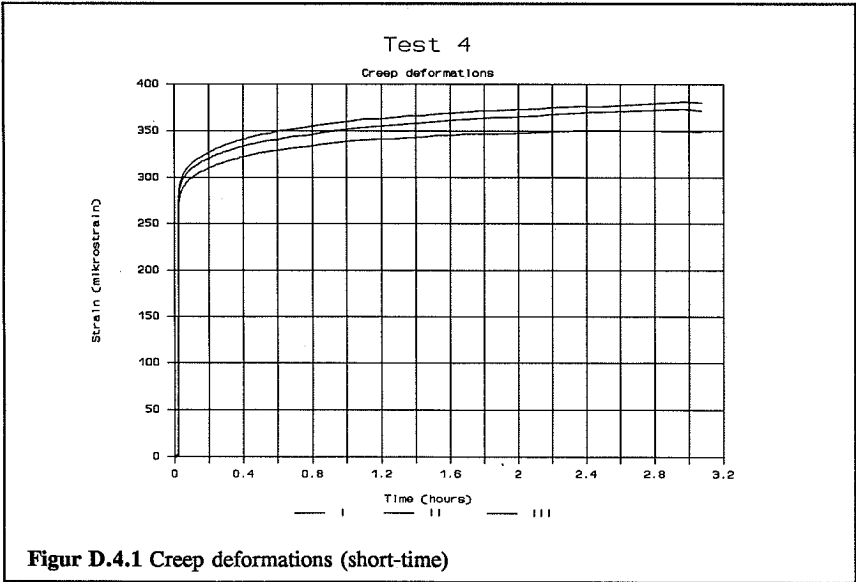
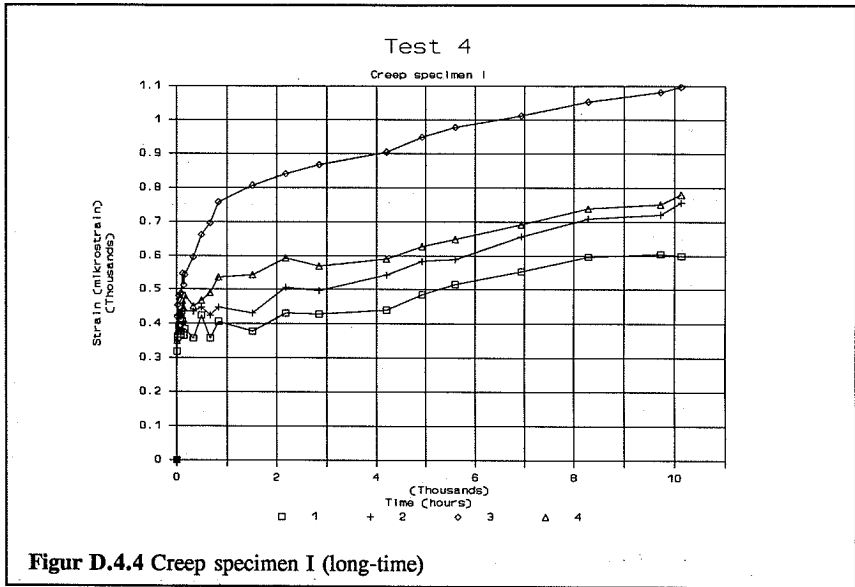
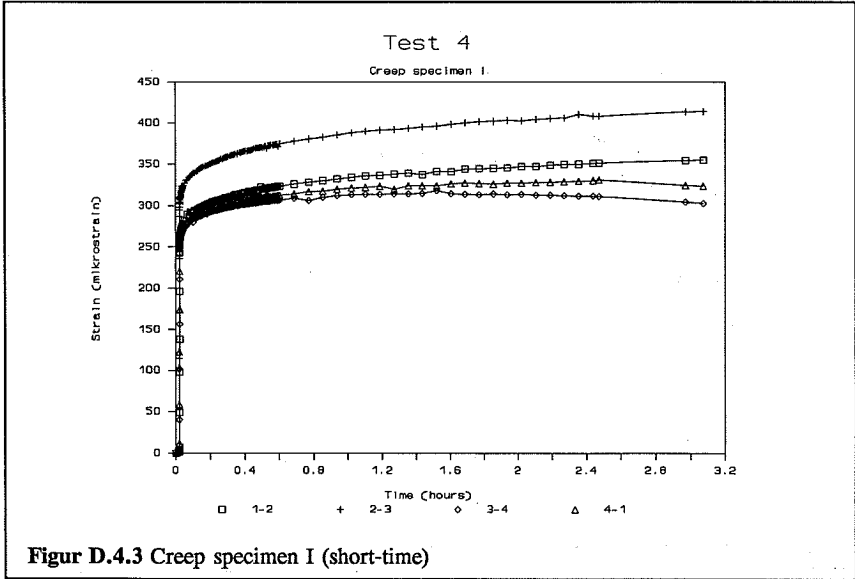
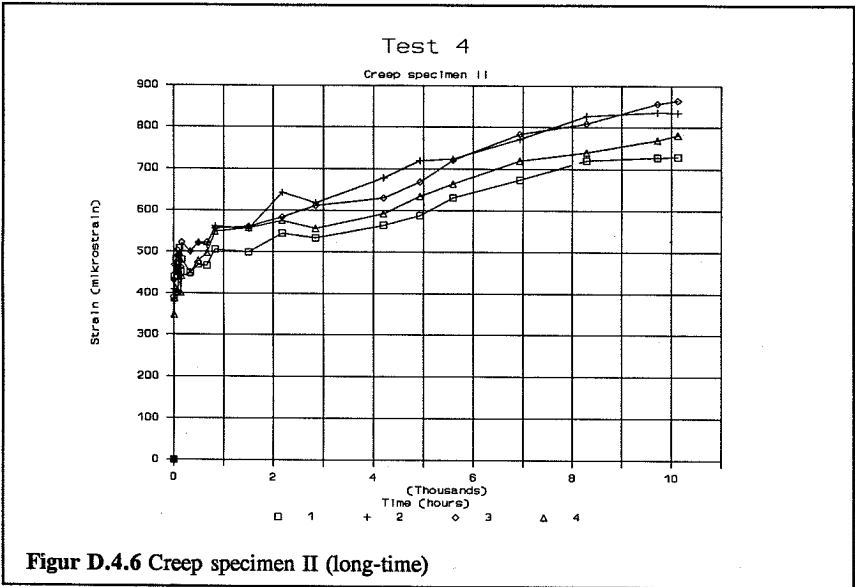
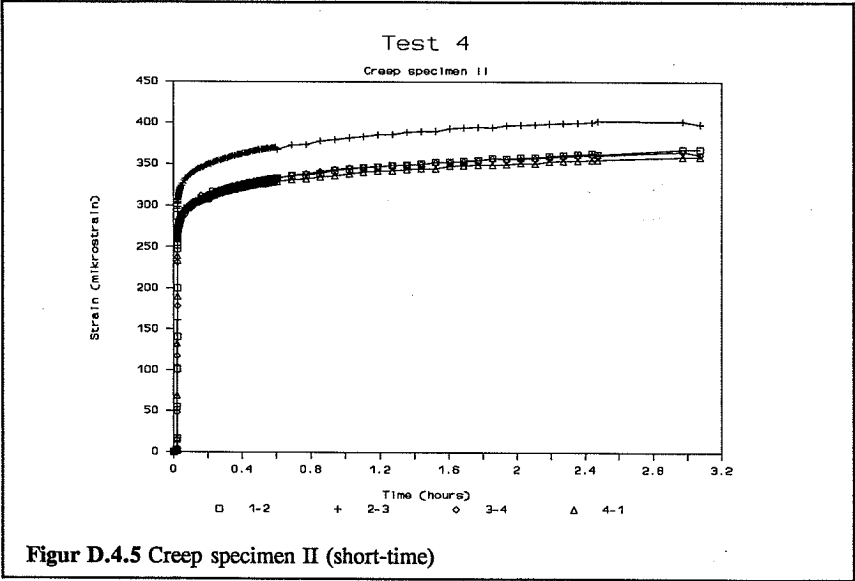
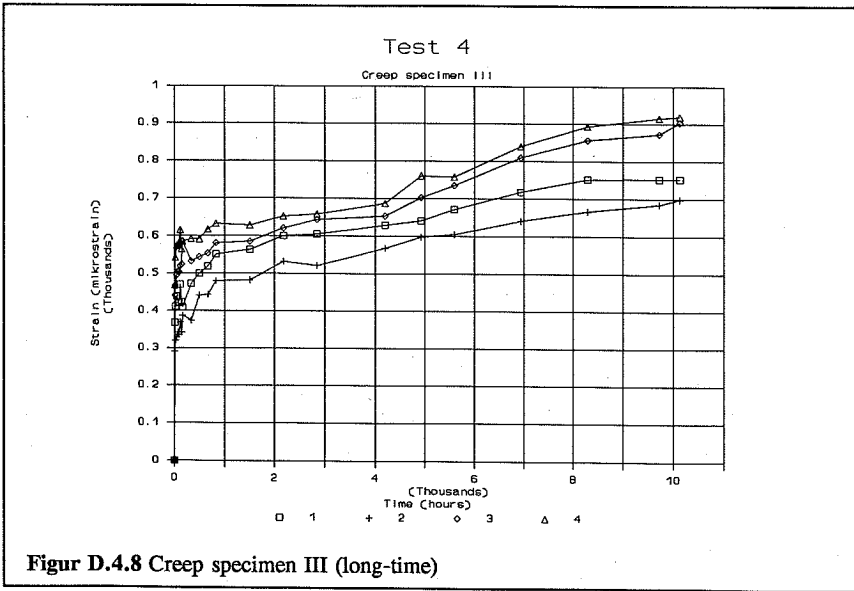
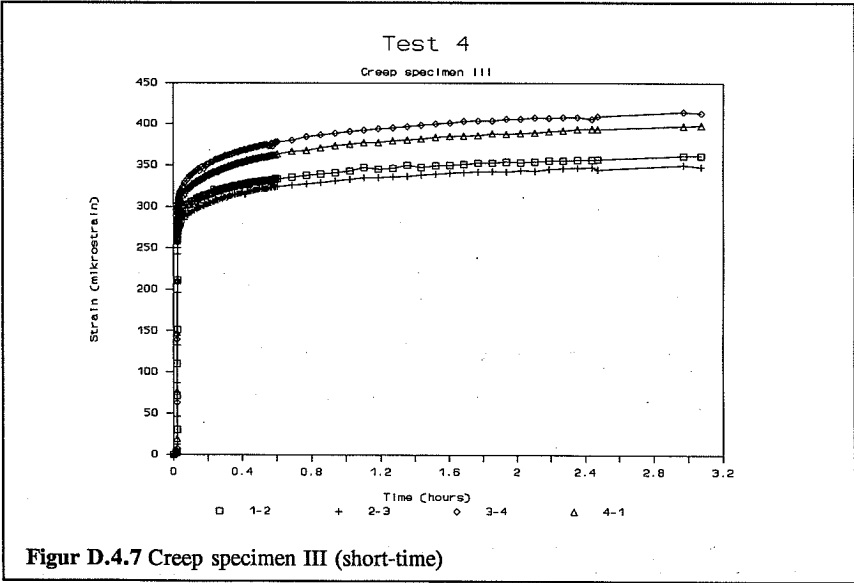


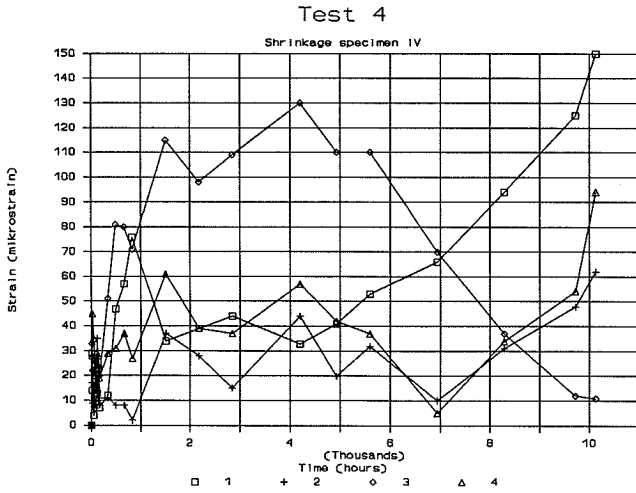
Figure D.3.12 Weightloss of shrinkage specimens (long-time)



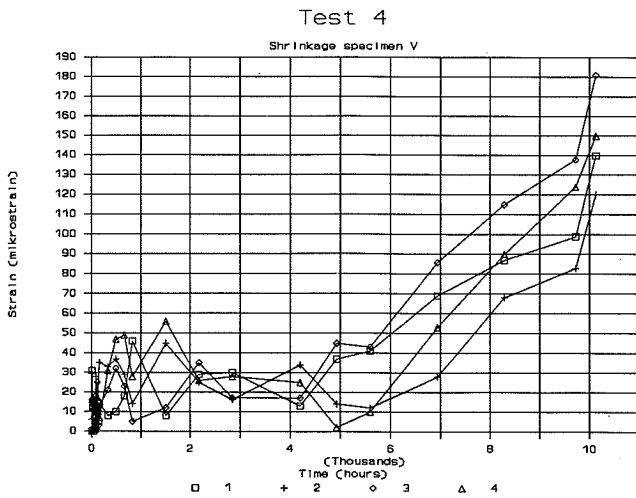




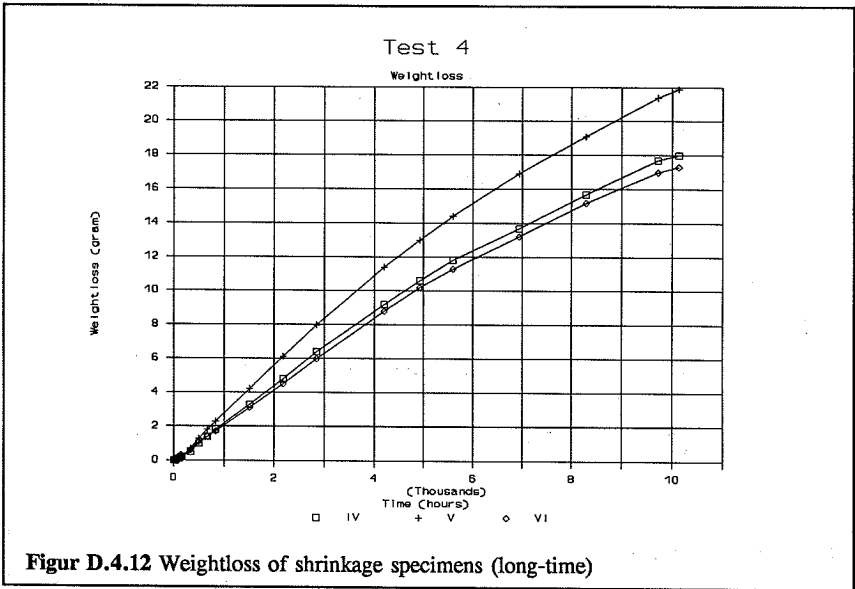
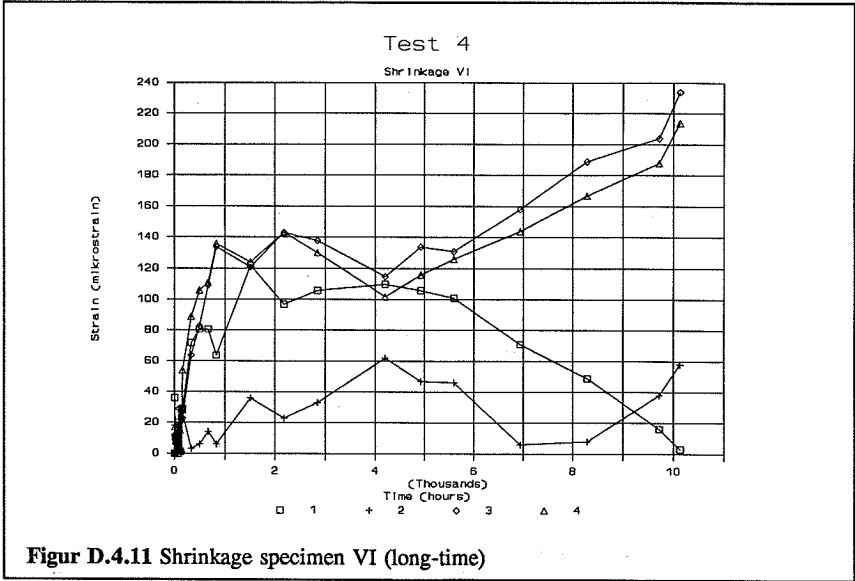


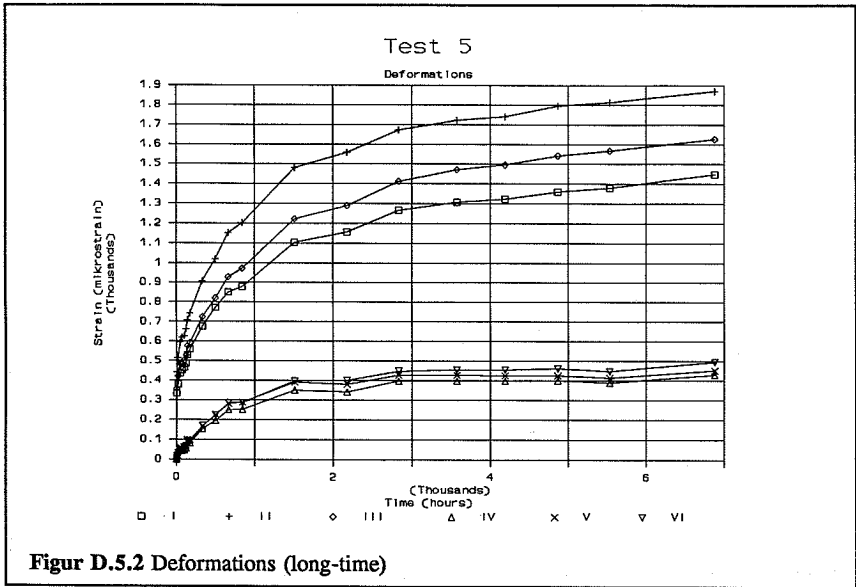
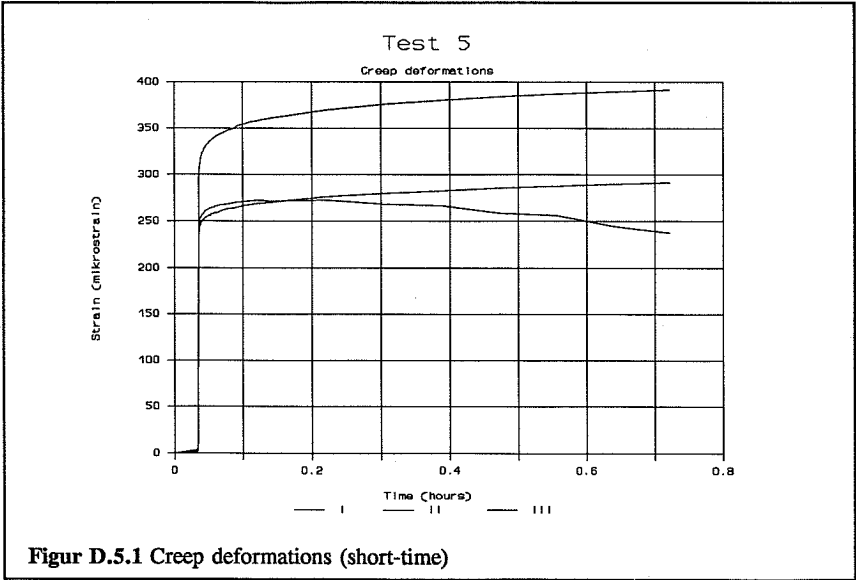


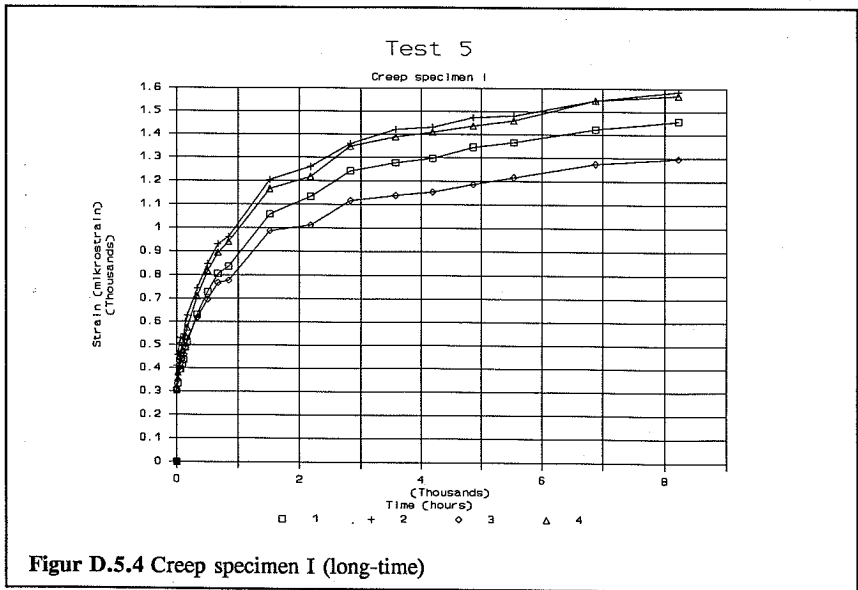
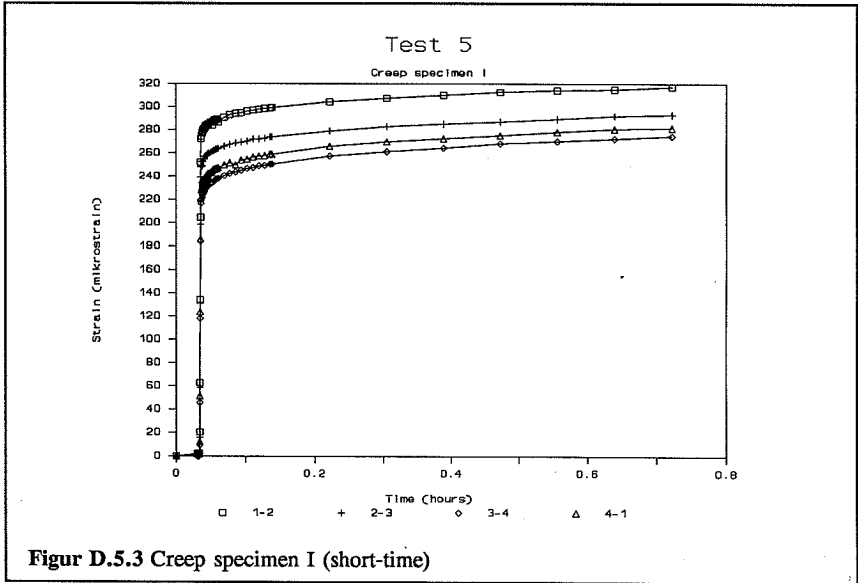
Figur D.4.9 Shrinkage specimen IV (long-time)

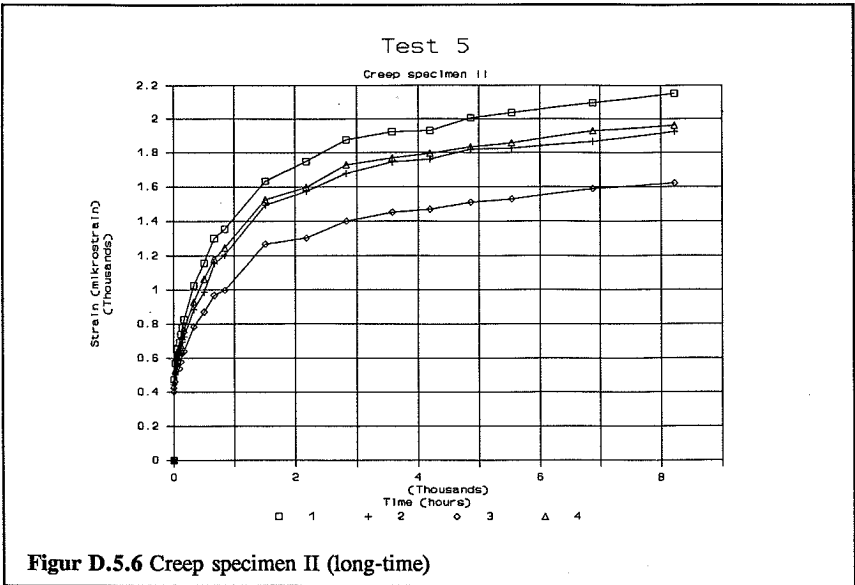
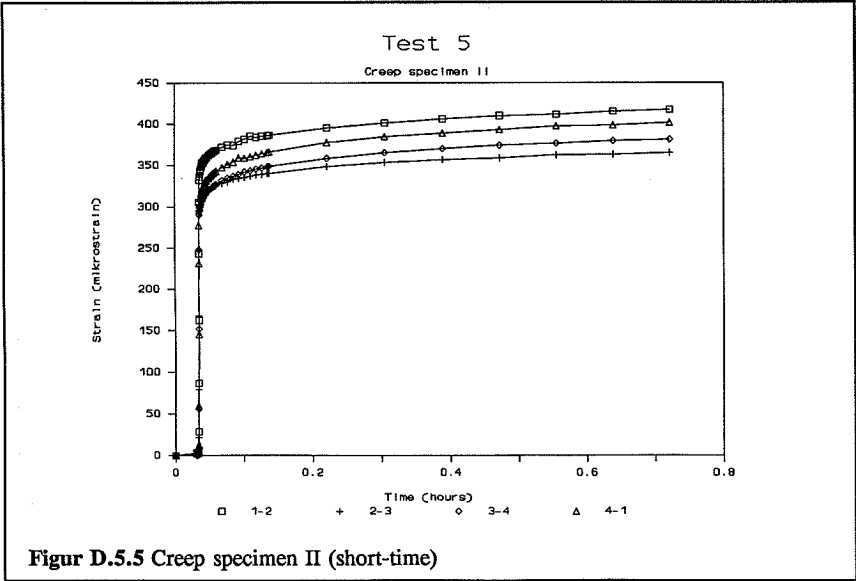


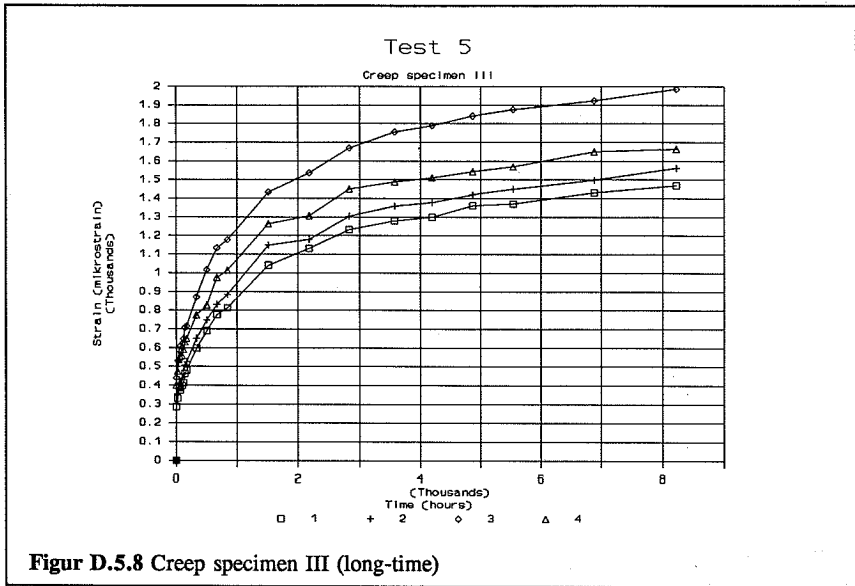
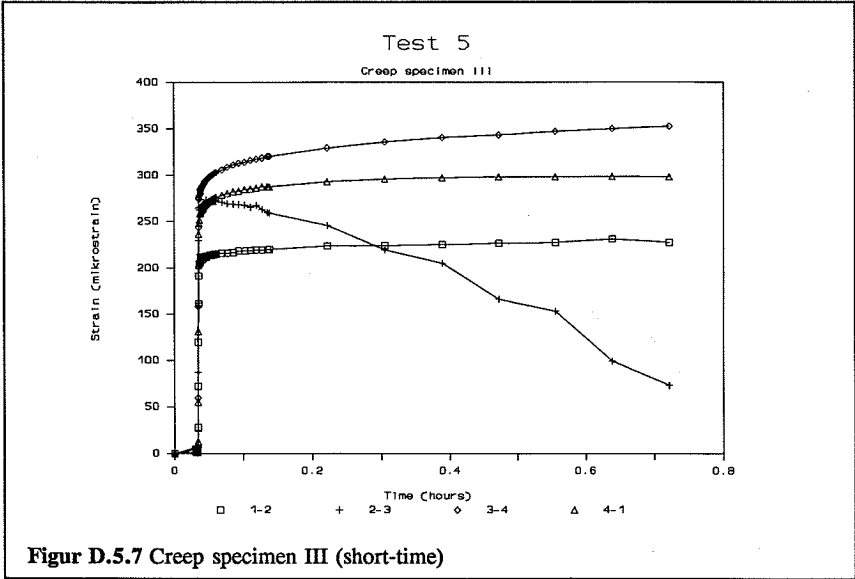
Figur D.4.10 Shrinkage specimen V (long-time)

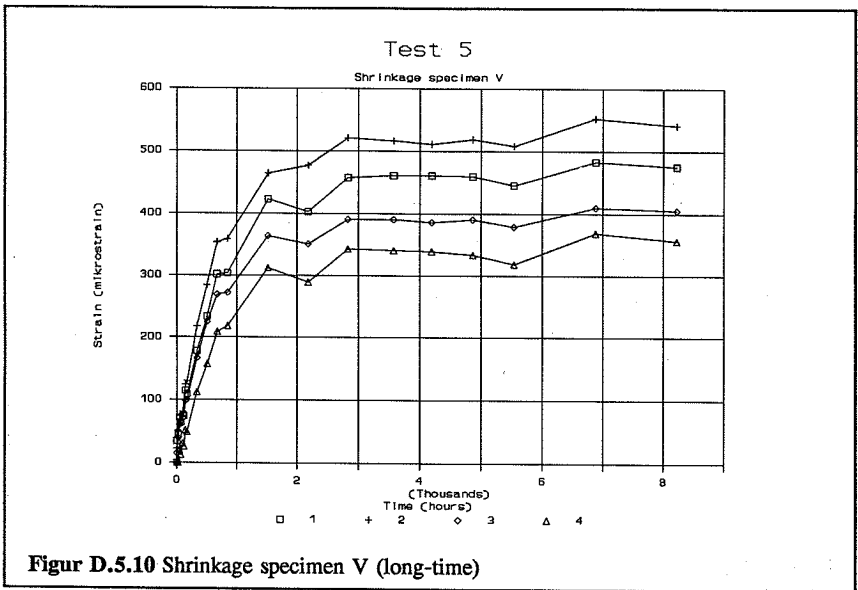
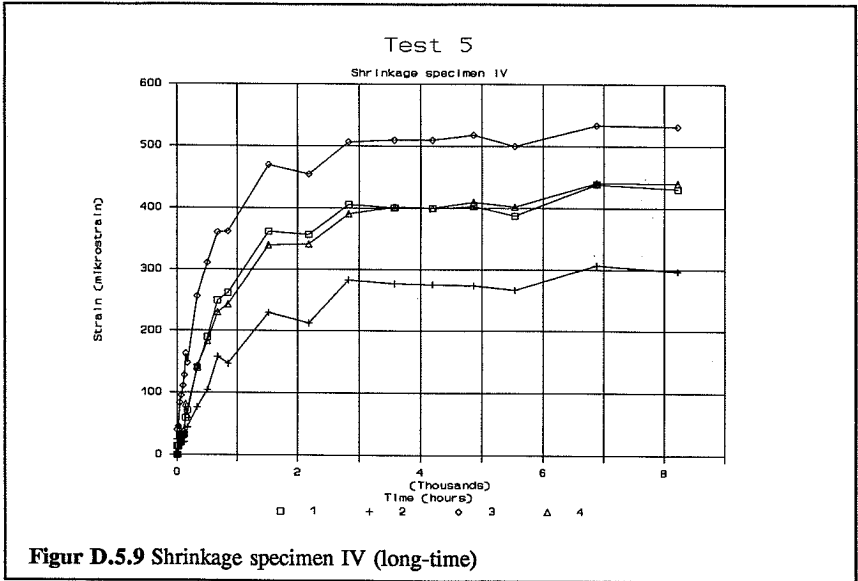


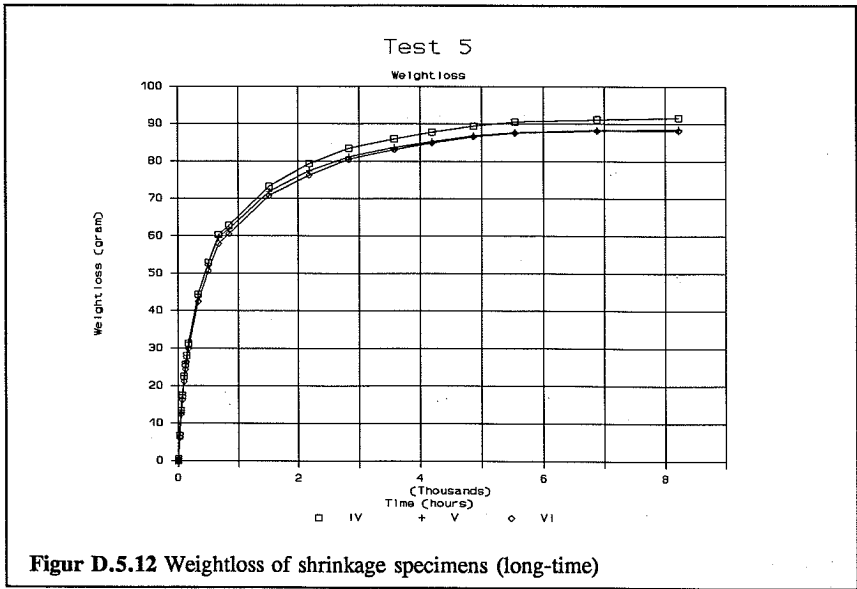
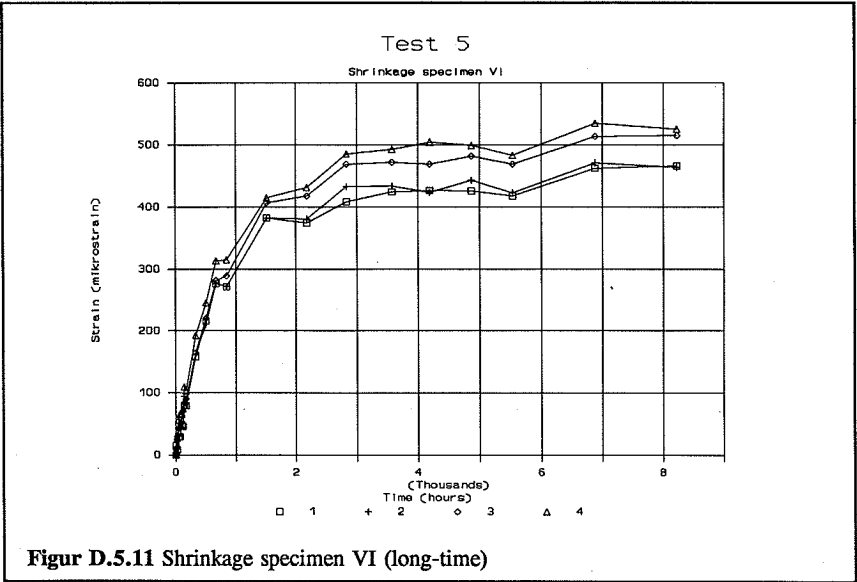


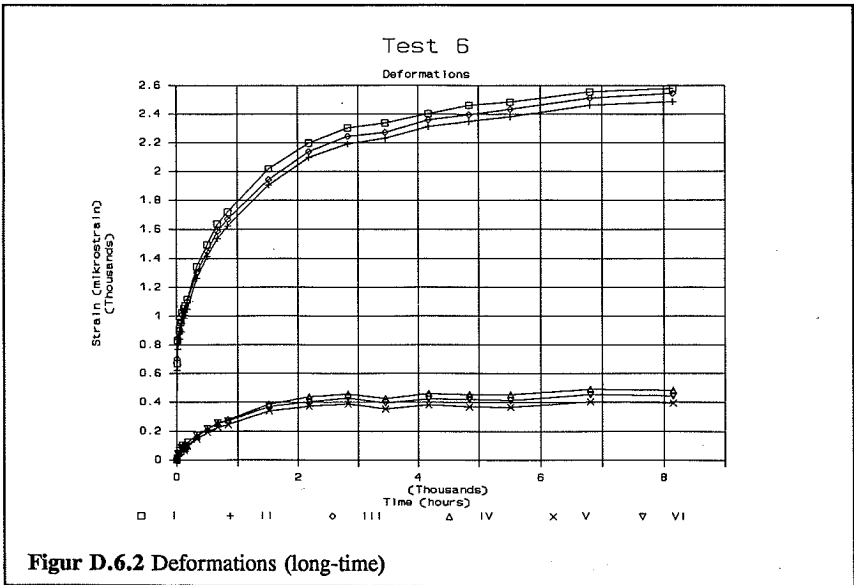
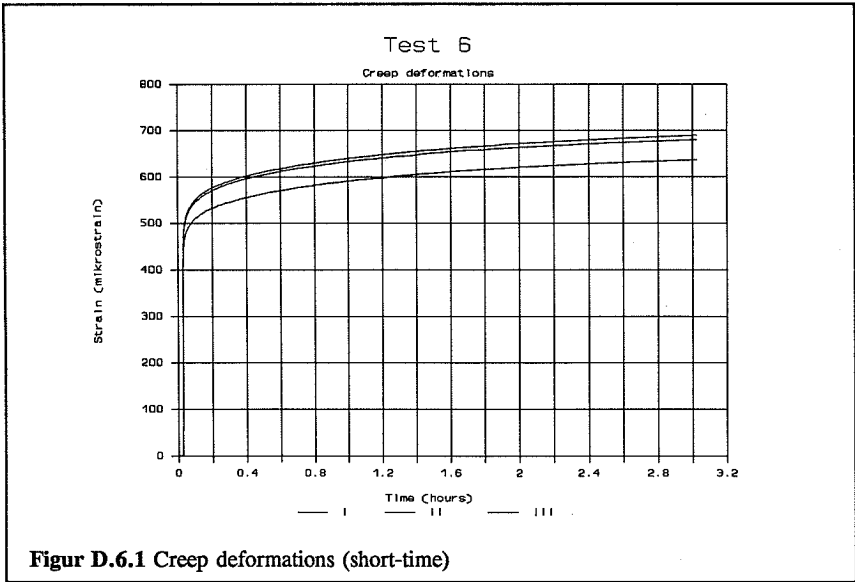


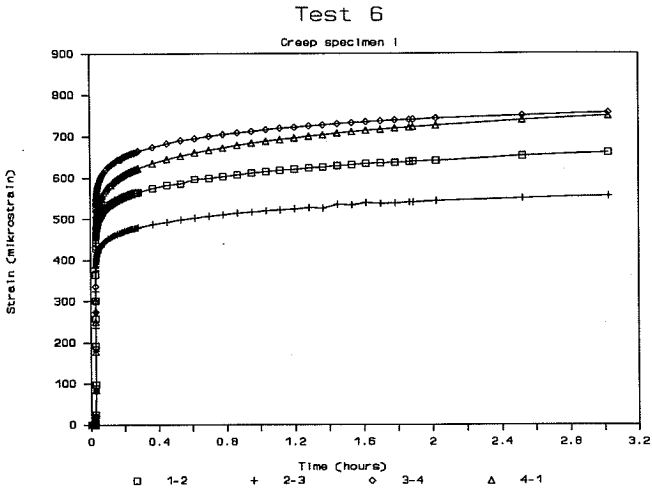




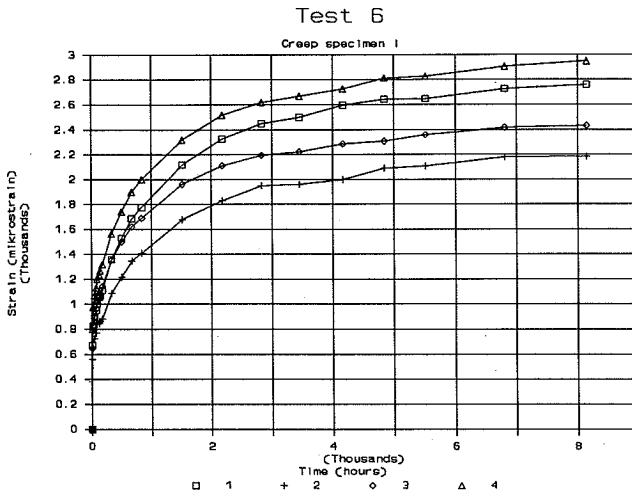




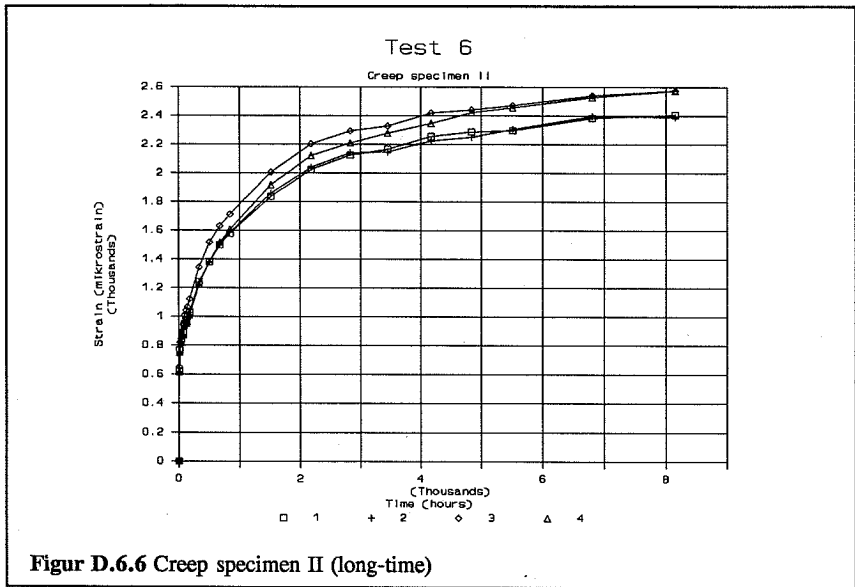
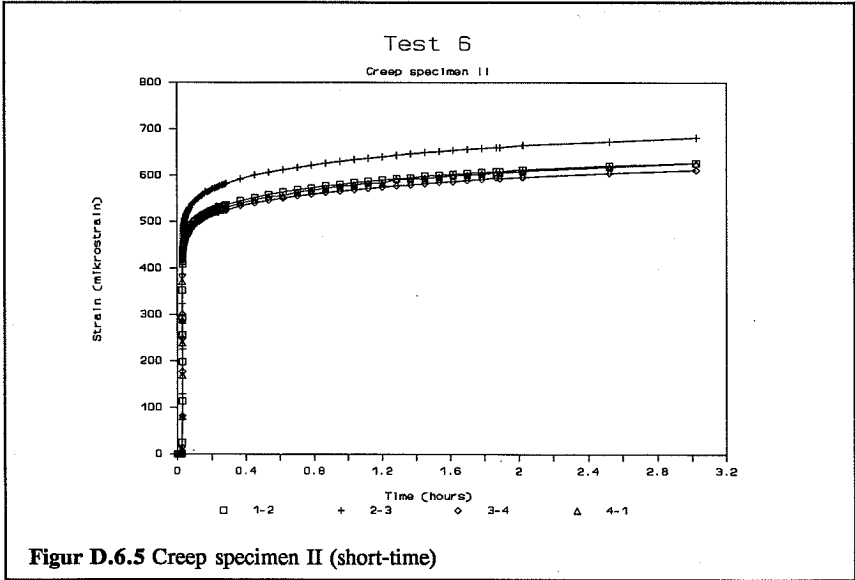


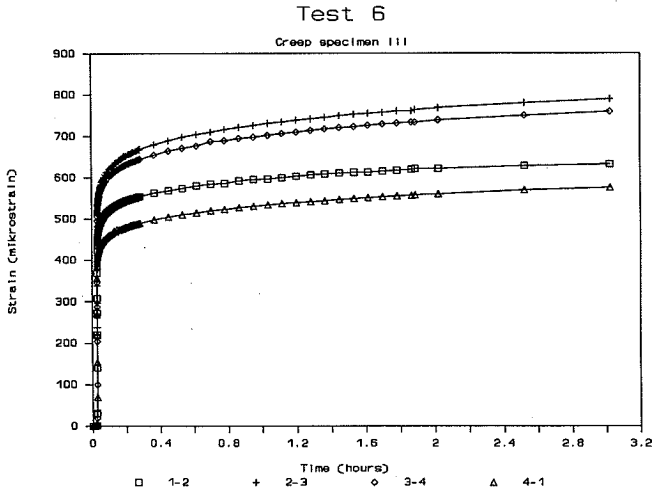


Figur D.6.3 Creep specimen I (short-time)

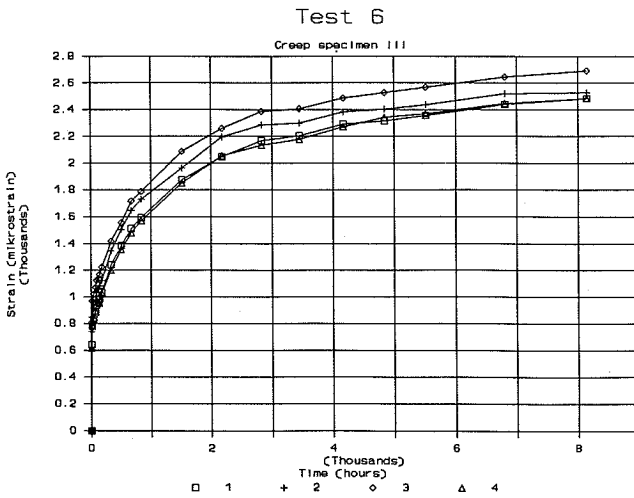


Figur D.6.4 Creep specimen I (long-time)

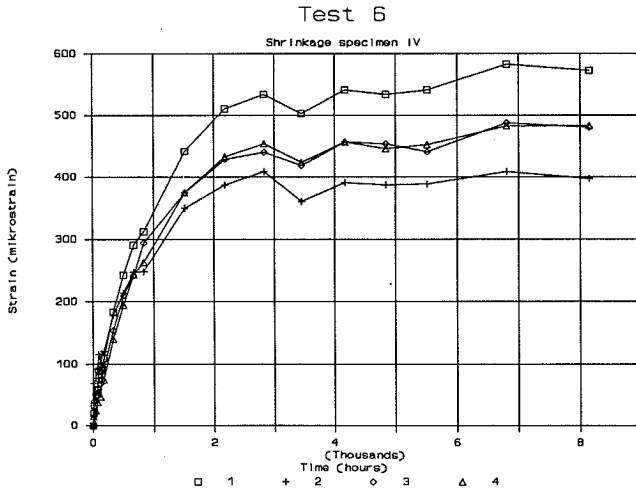




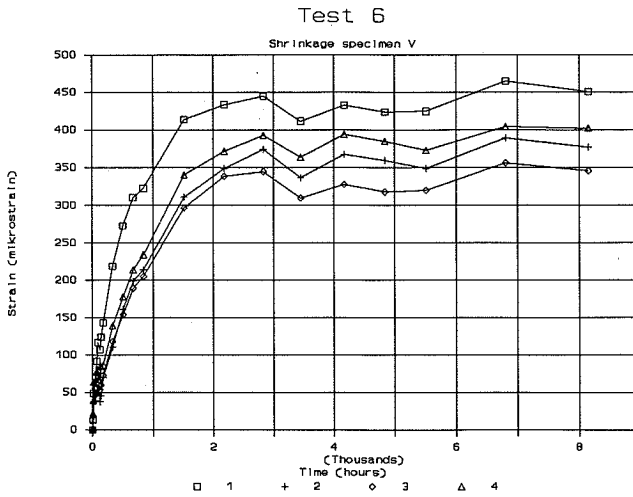
Figur D.6.7 Creep specimen III (short-time)



Figur D.6.8 Creep specimen III (long-time)



Figur D.6.9 Shrinkage specimen IV (long-time)



Figur D.6.10 Shrinkage specimen V (long-time)

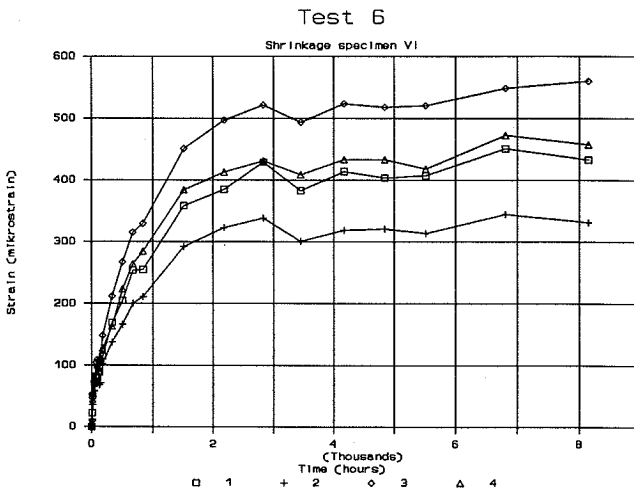


Figure D.6.11 Shrinkage specimen VI (long-time)

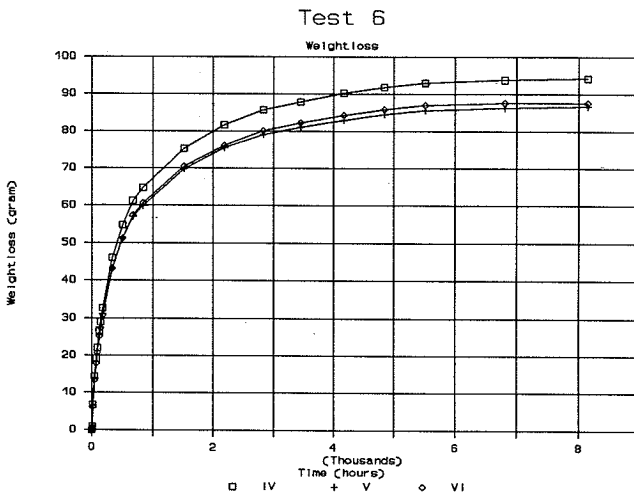
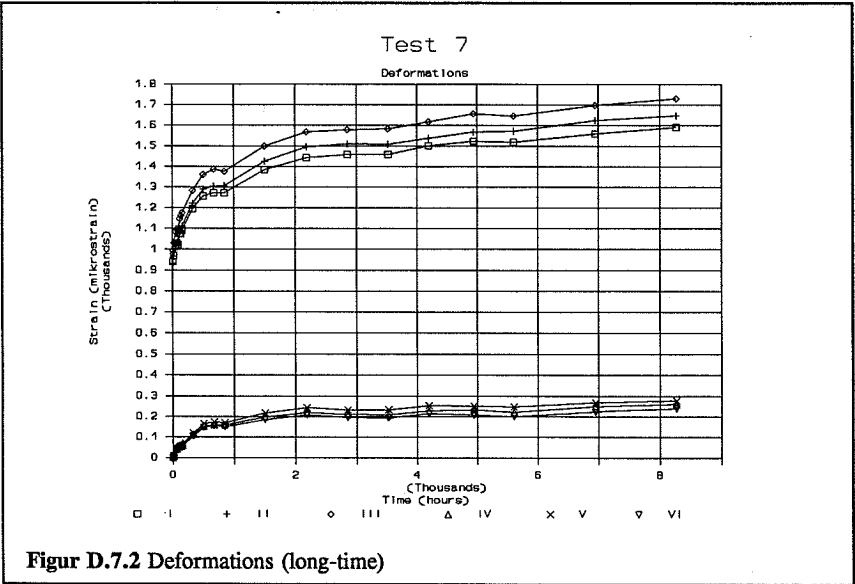
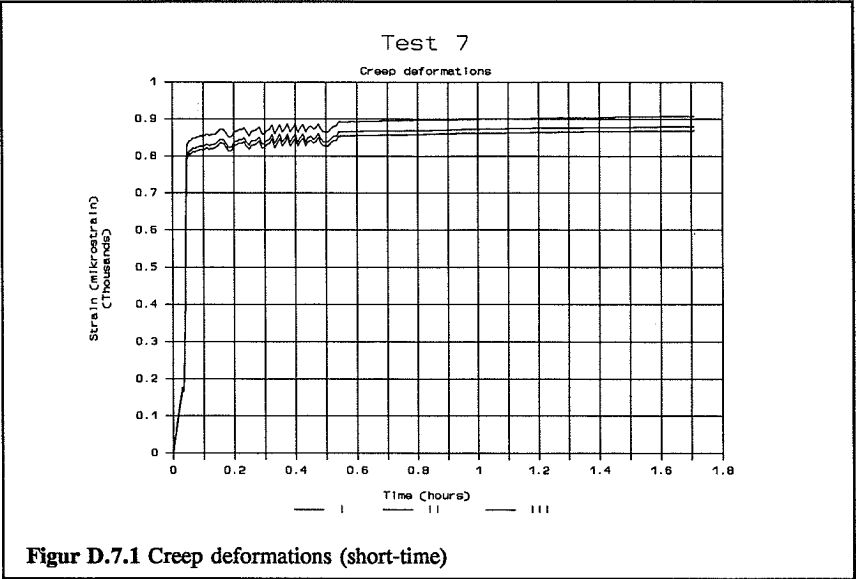
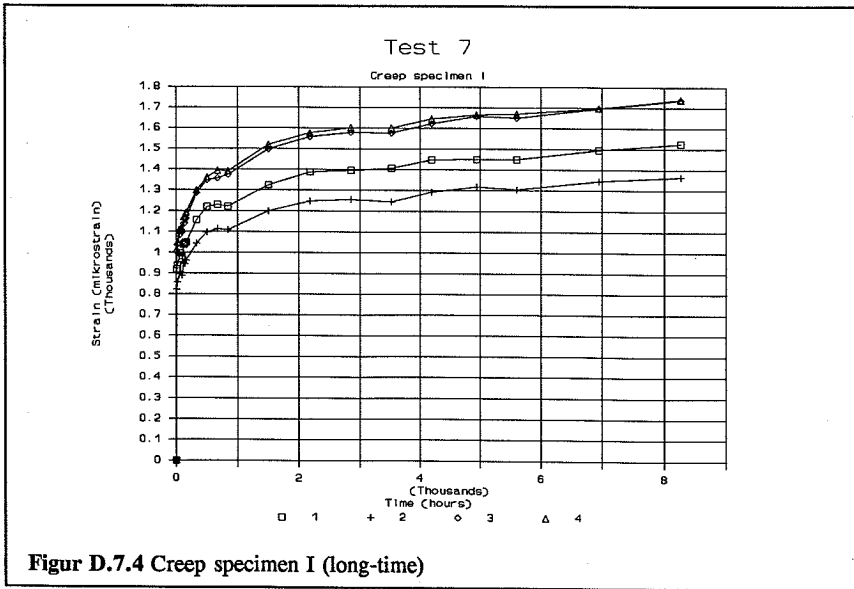
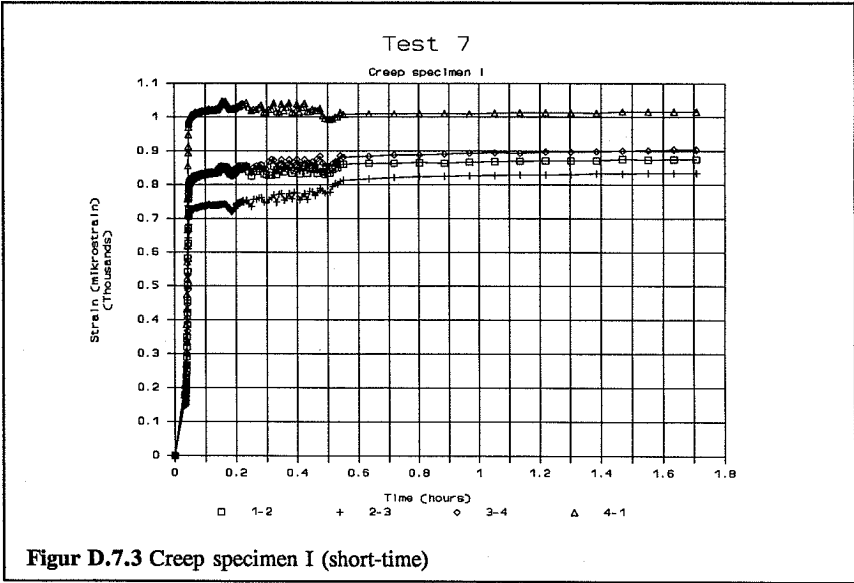
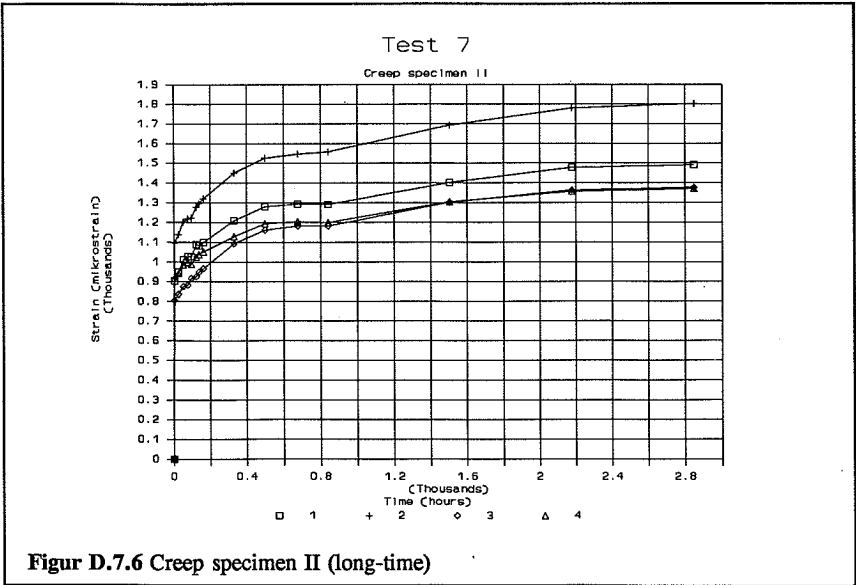
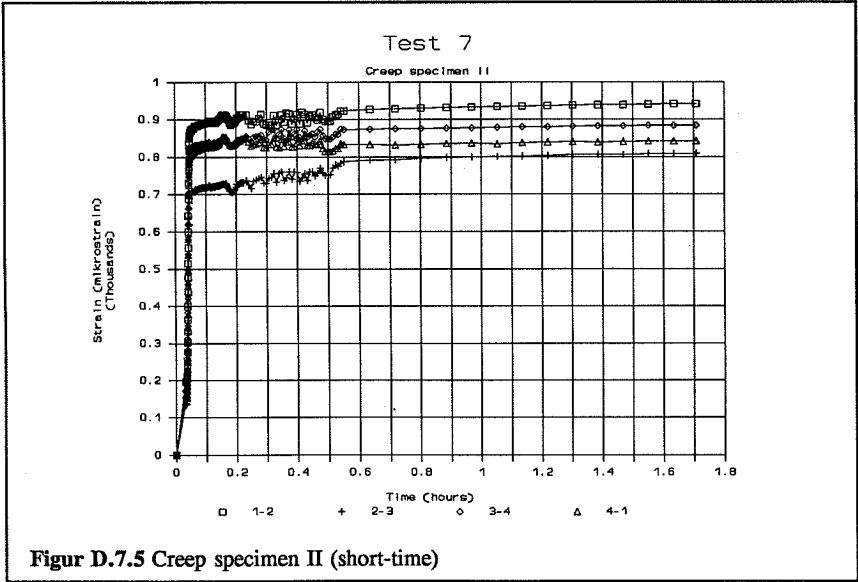
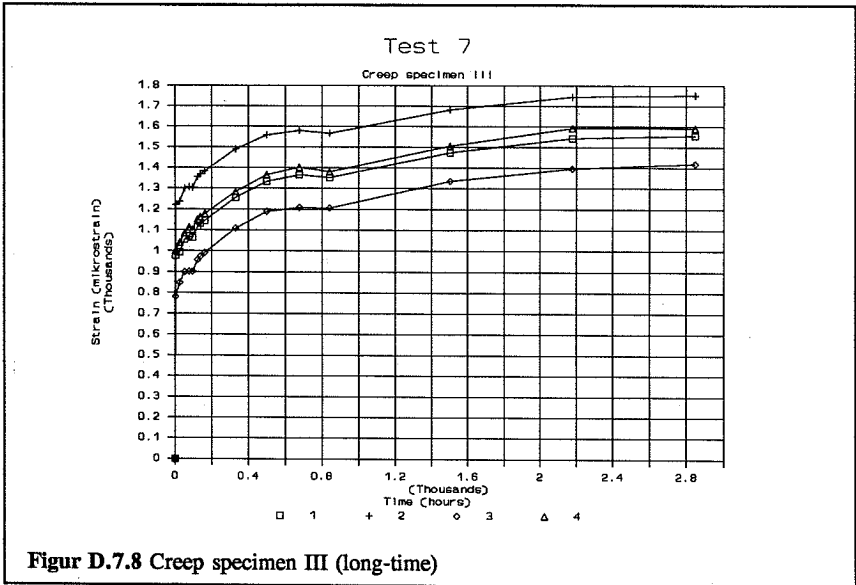
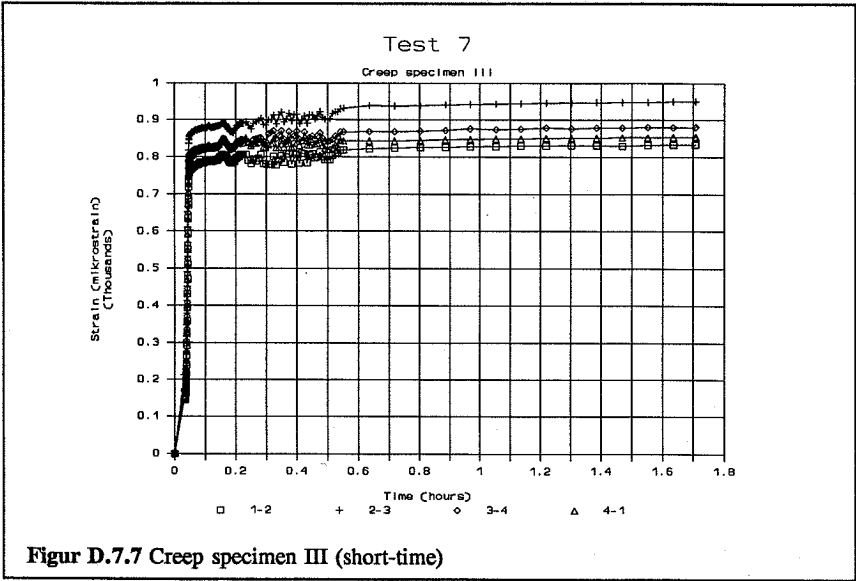


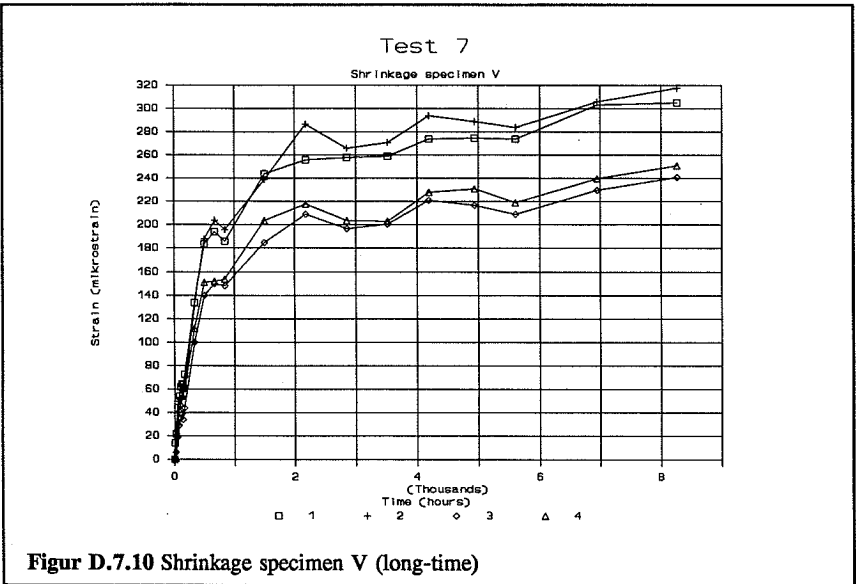
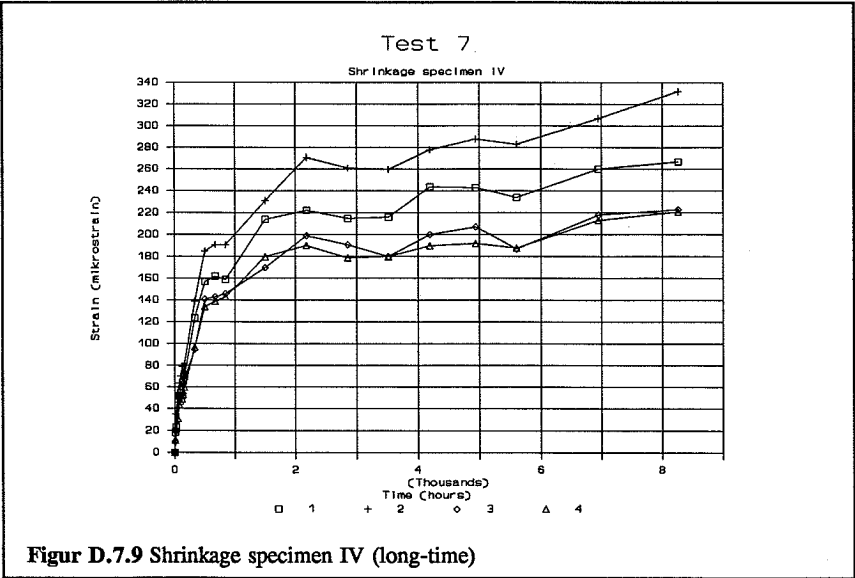
Figure D.6.12 Weightloss of shrinkage specimens (long-time)

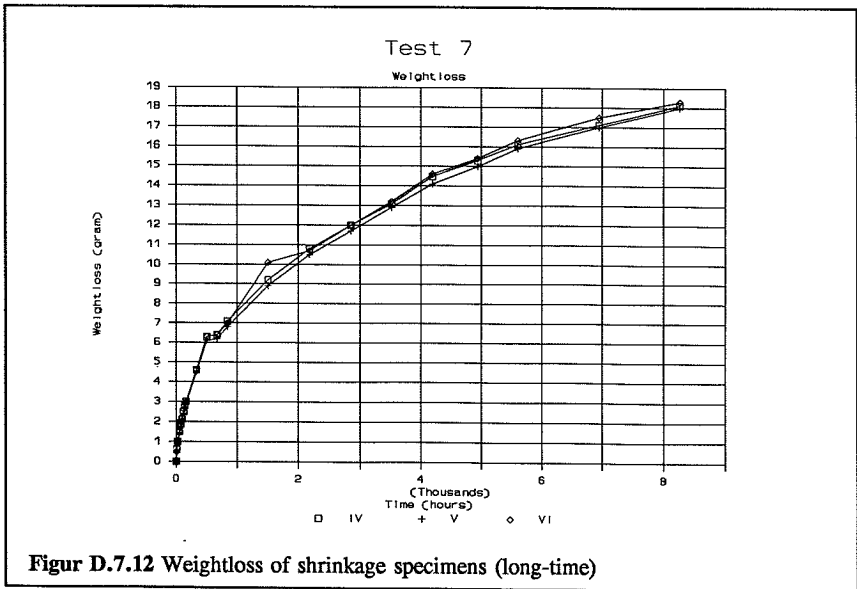
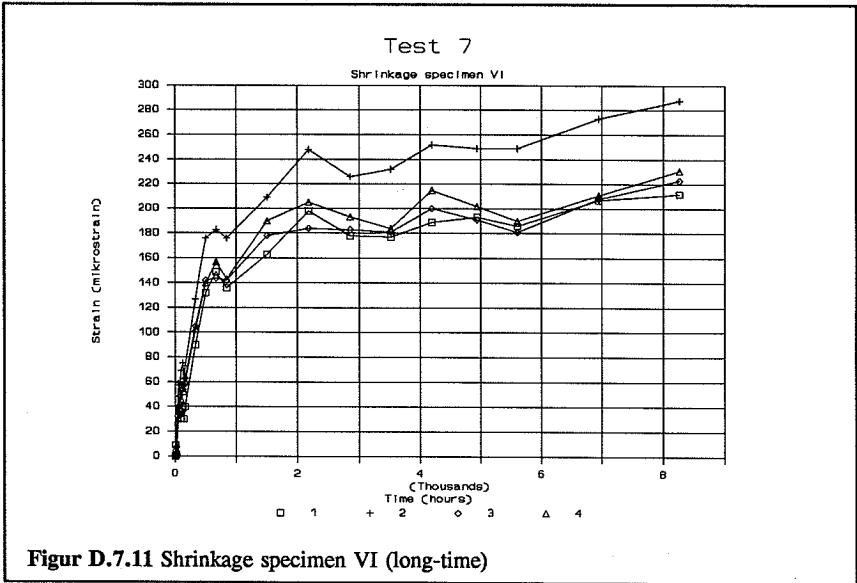


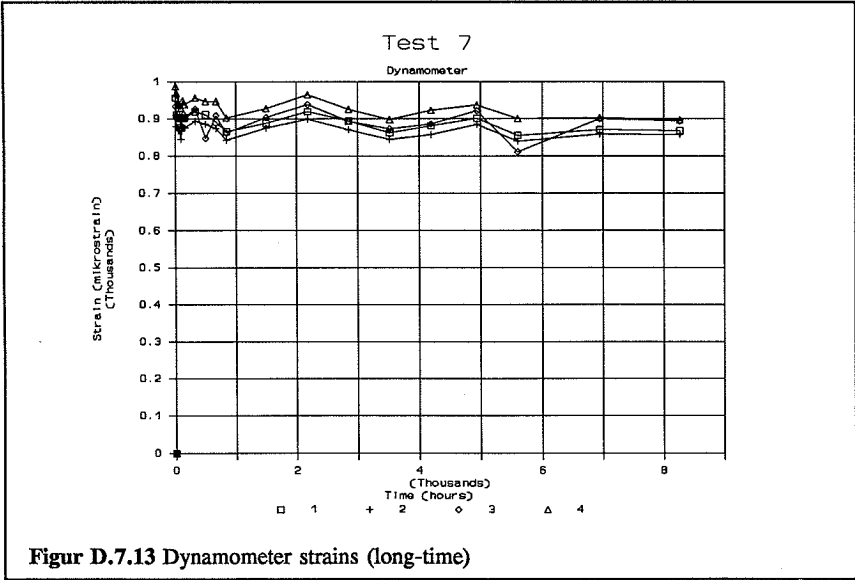


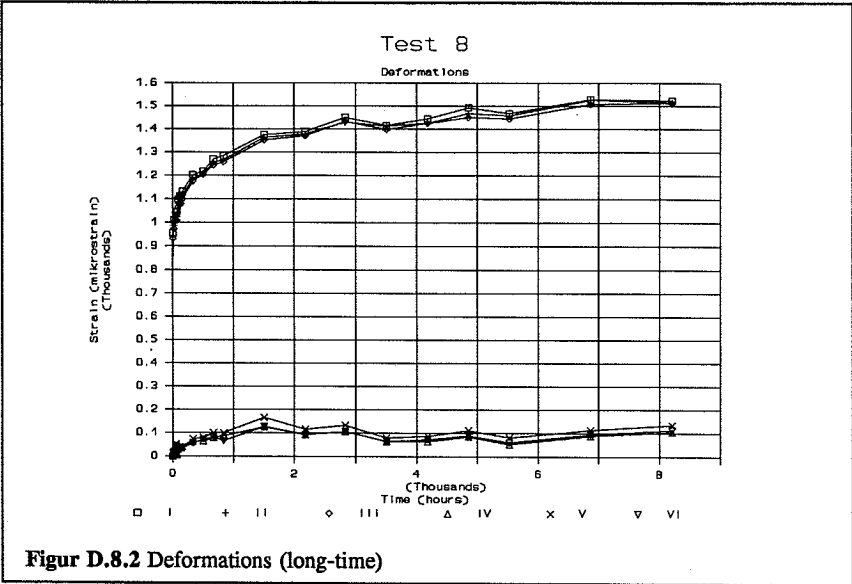
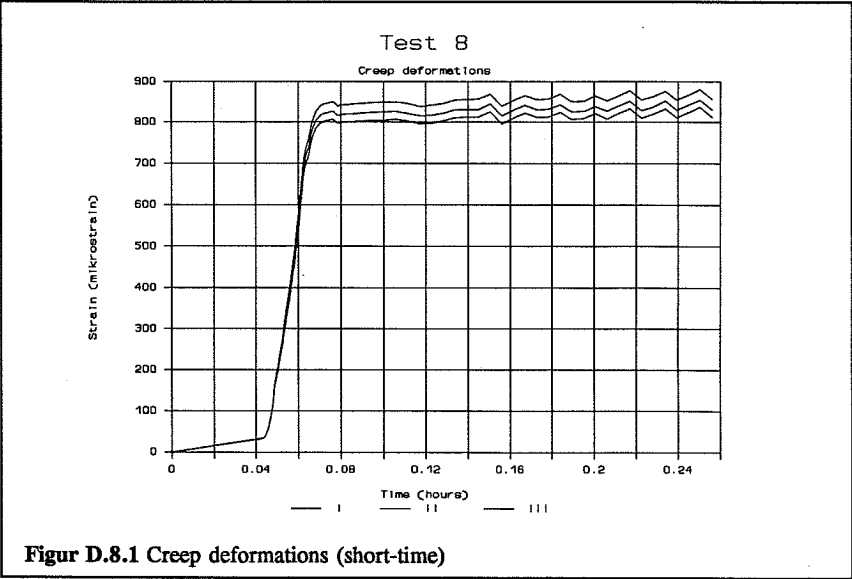


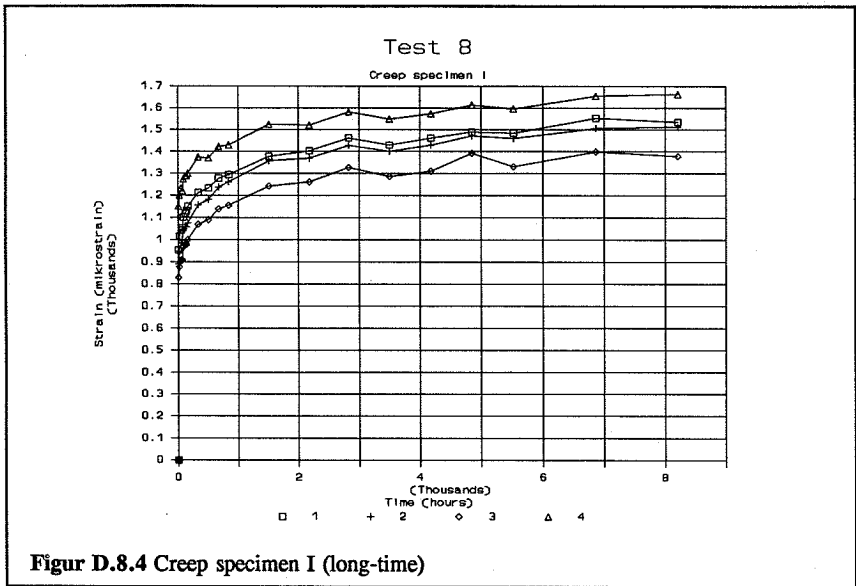
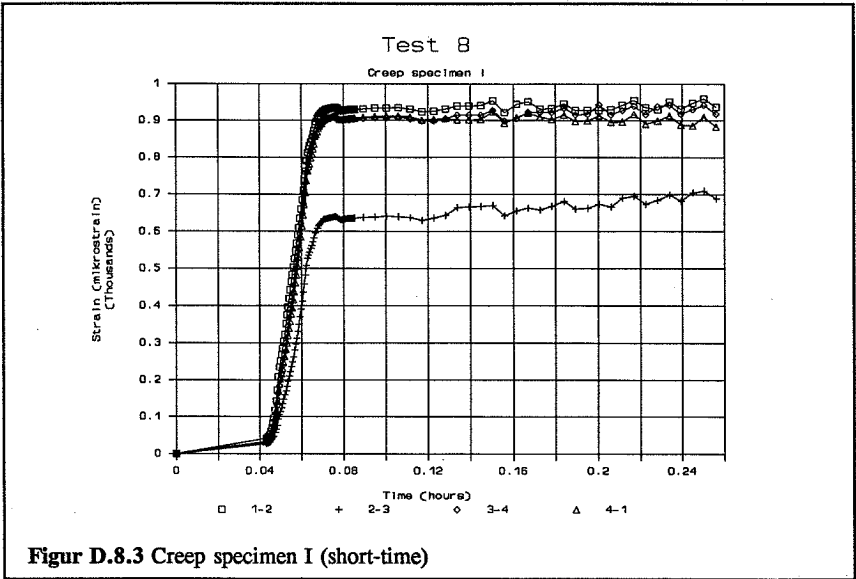


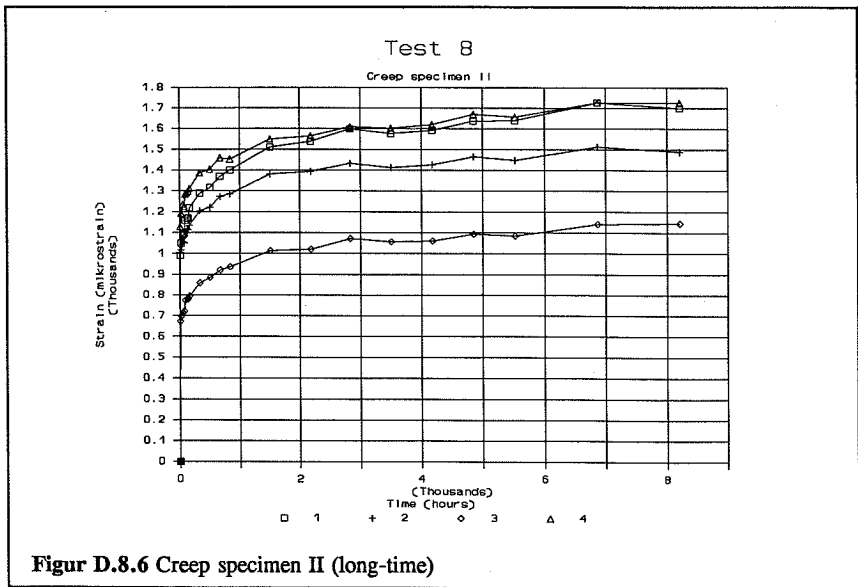
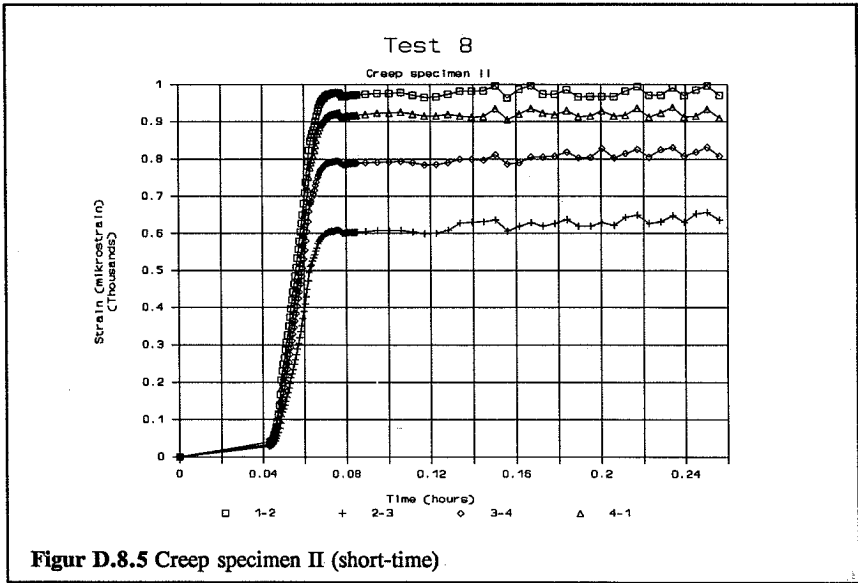


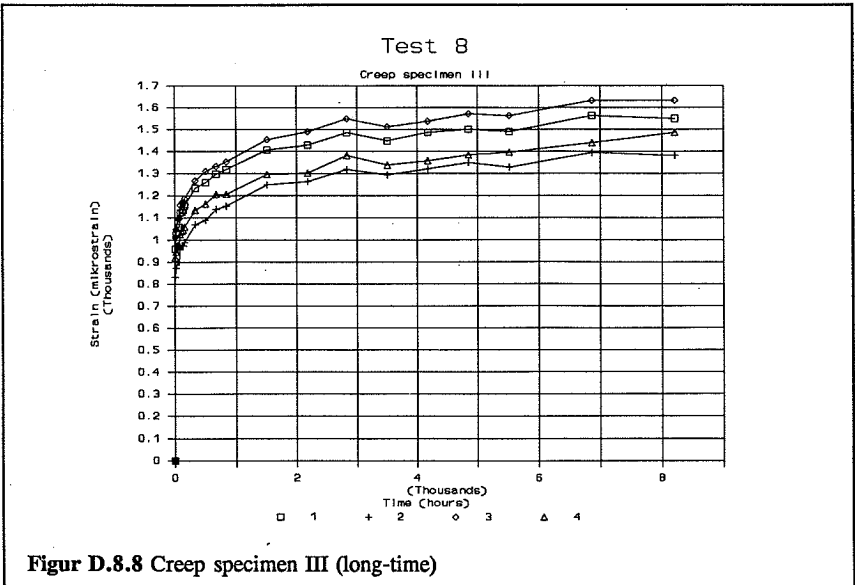
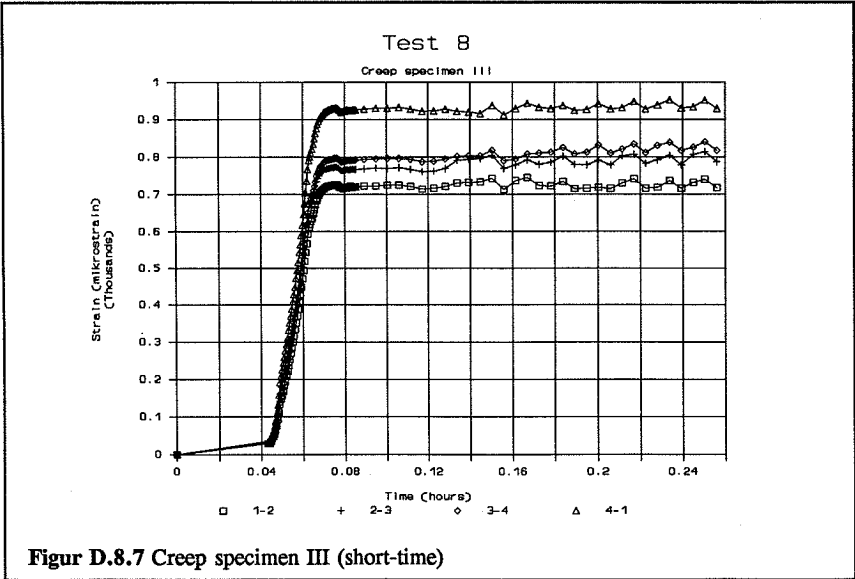


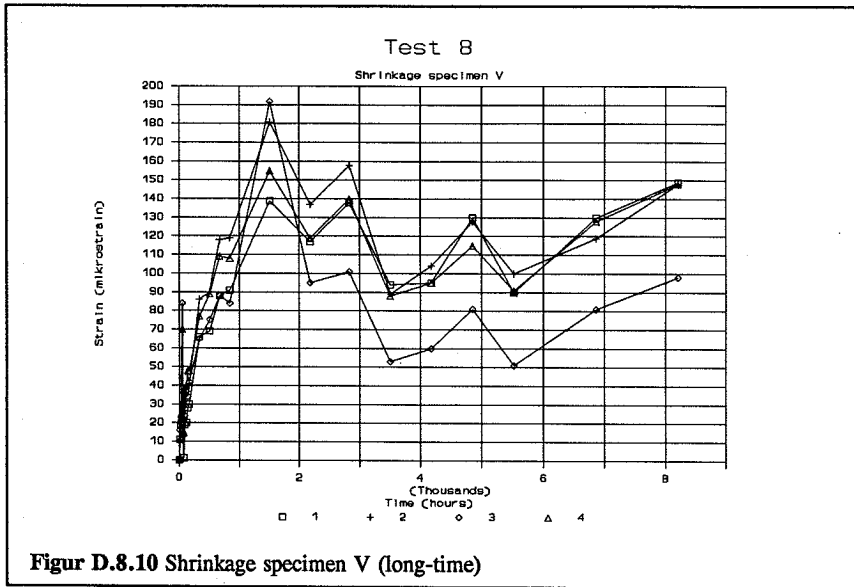
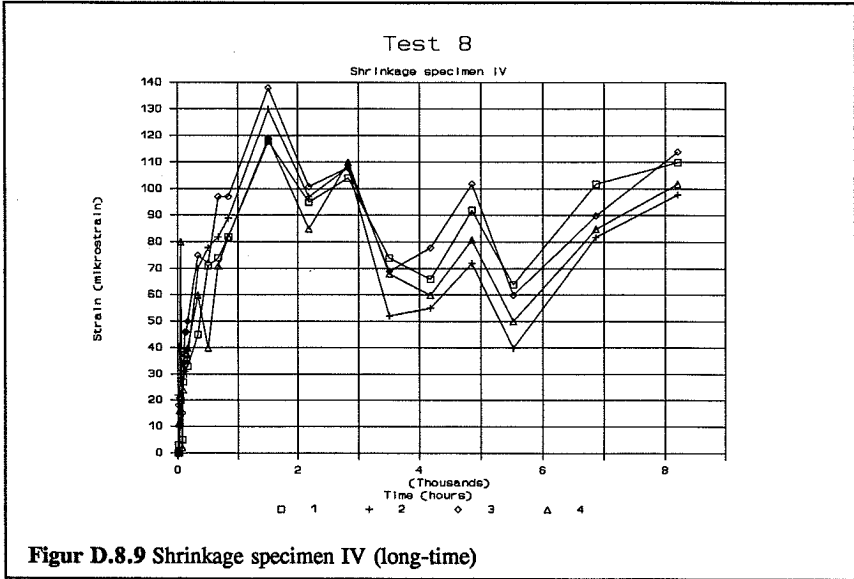


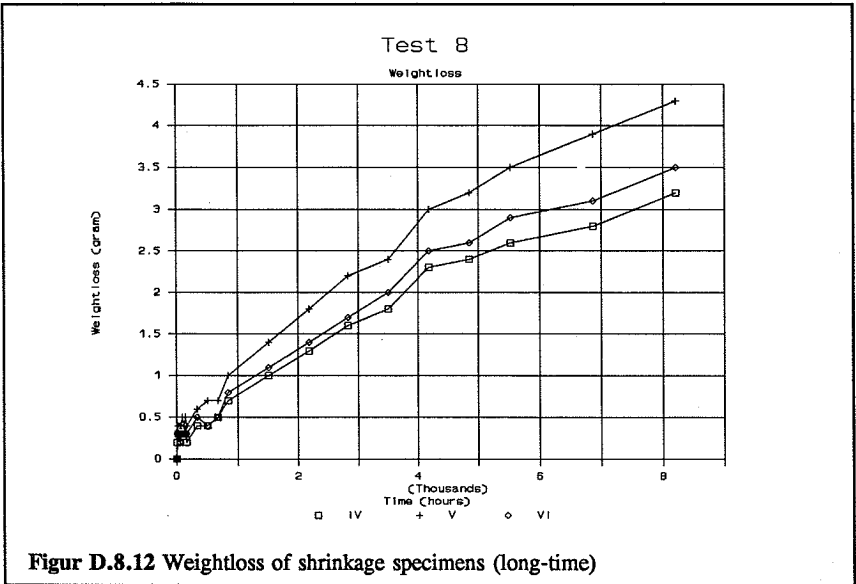
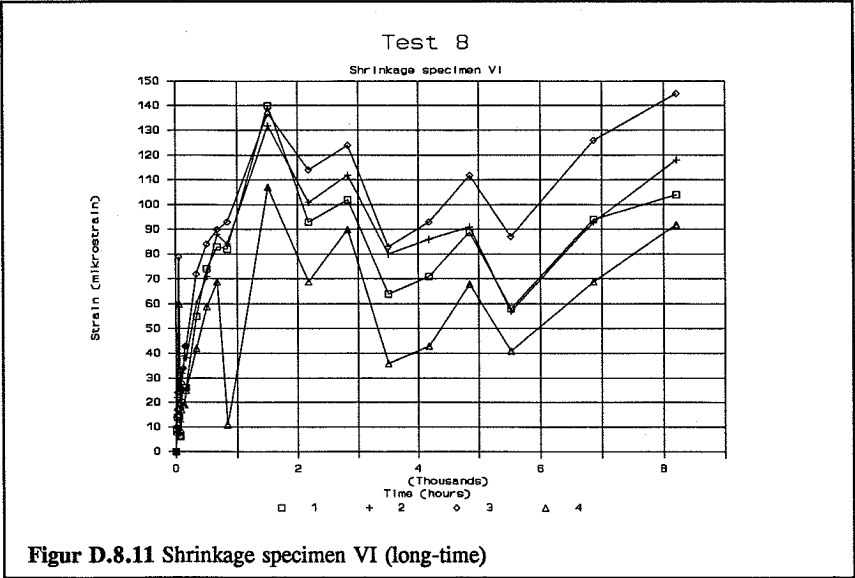


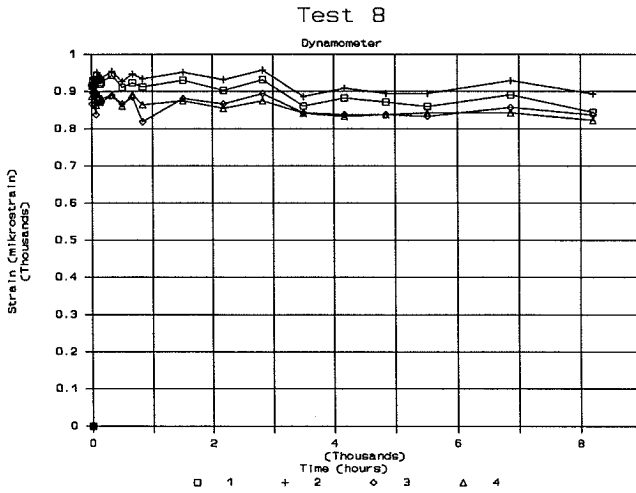




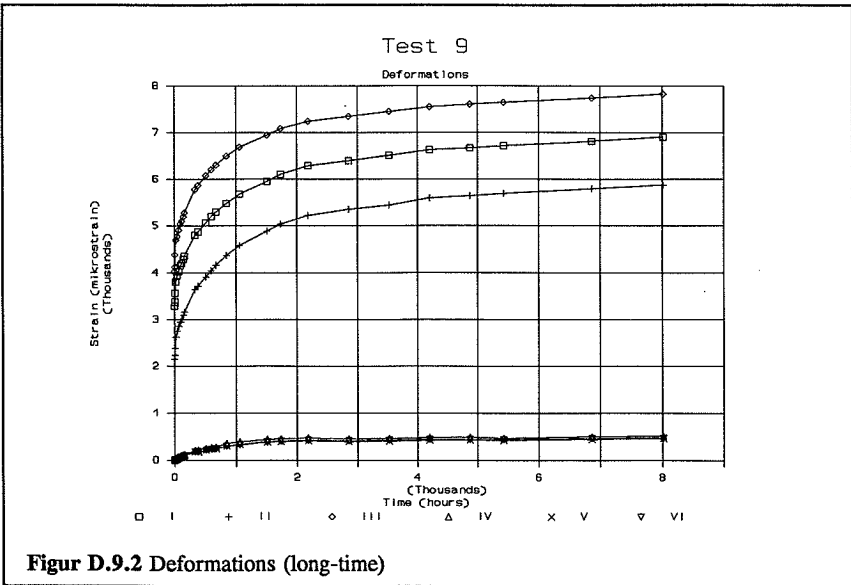
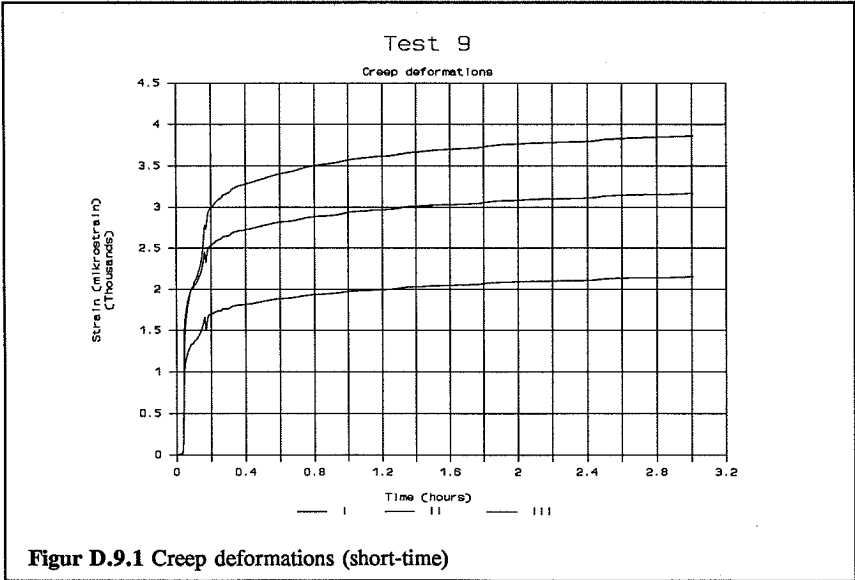


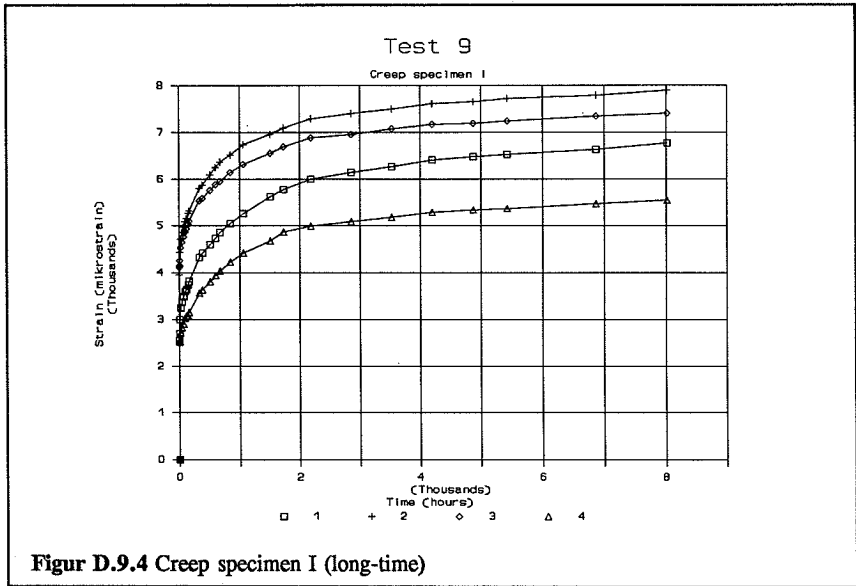
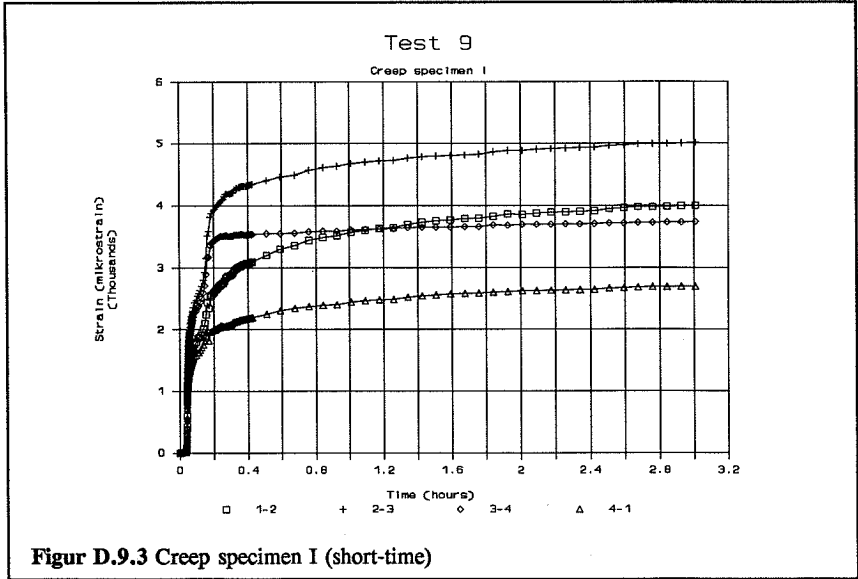


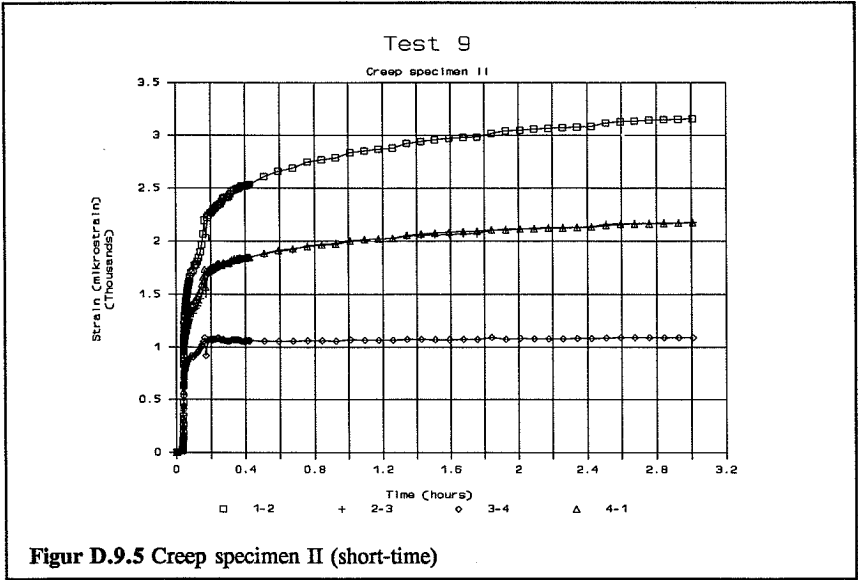




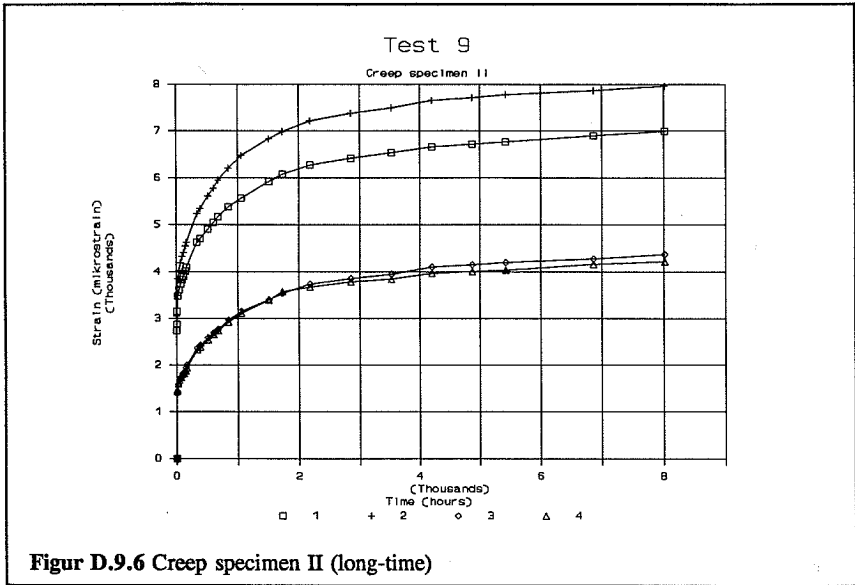
Figur D.8.13 Dynamometer strains (long-time)



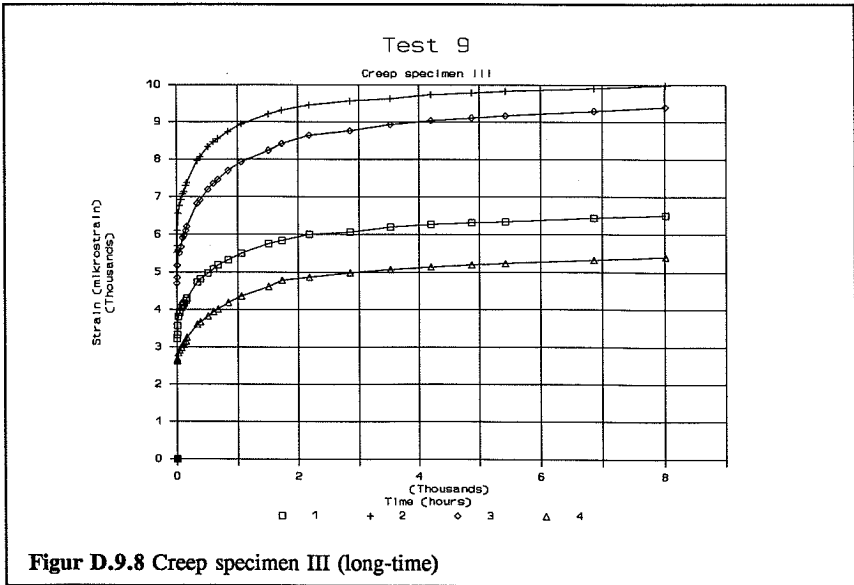
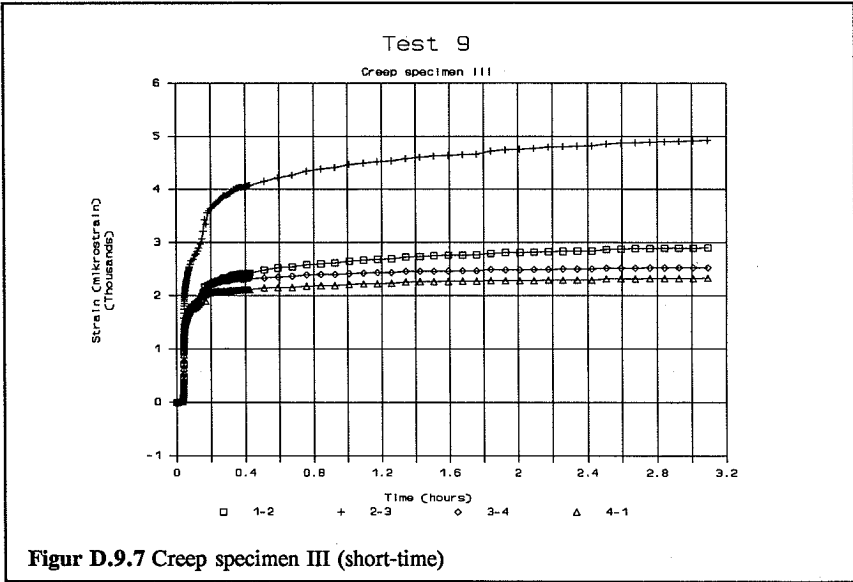


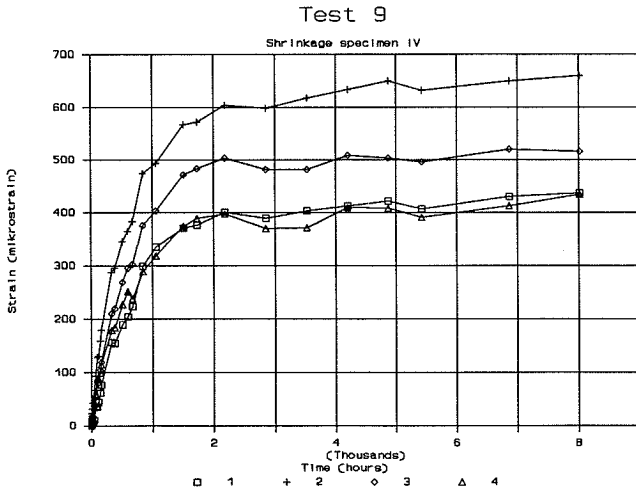


Figur D.9.5 Creep specimen II (short-time)

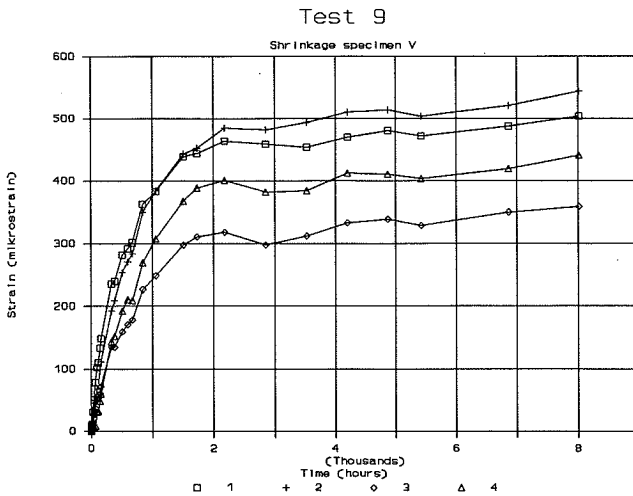


Figur D.9.6 Creep specimen II (long-time)

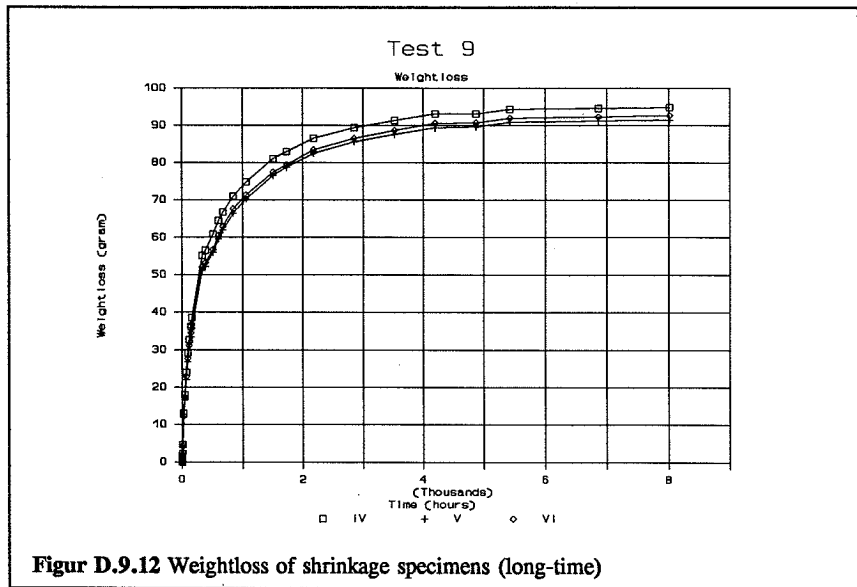
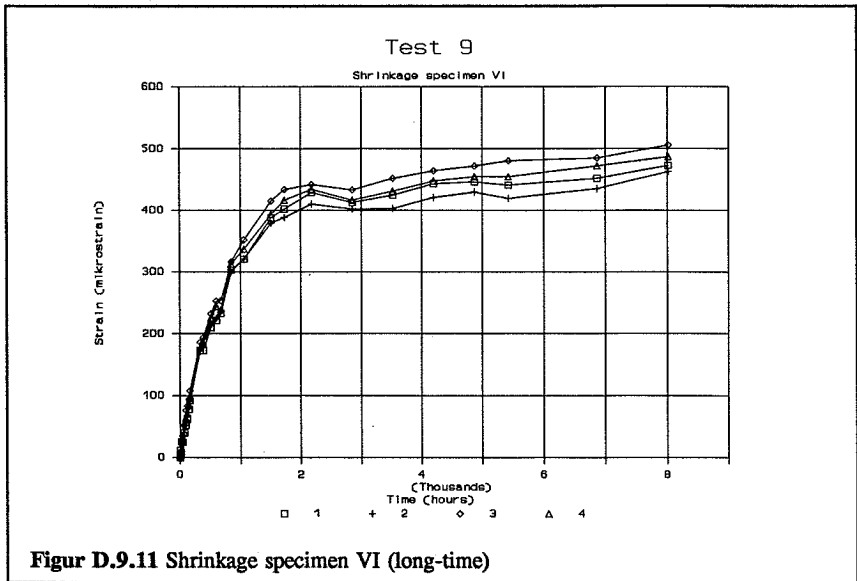


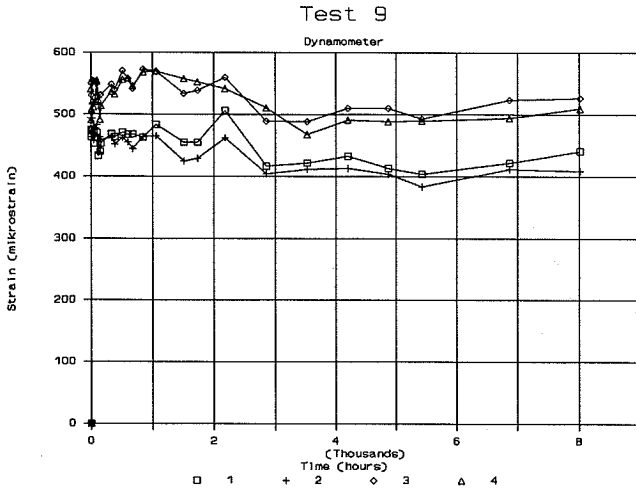


Figur D.9.9 Shrinkage specimen IV (long-time)

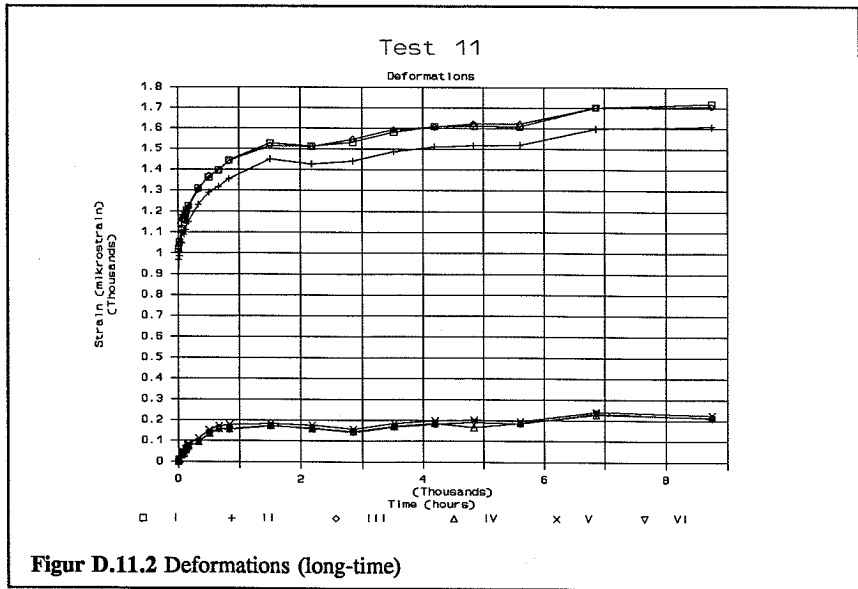
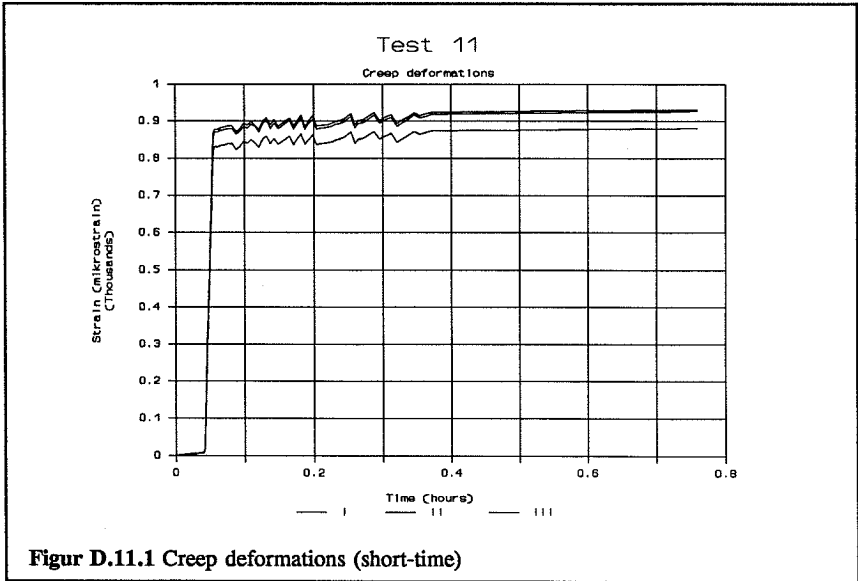


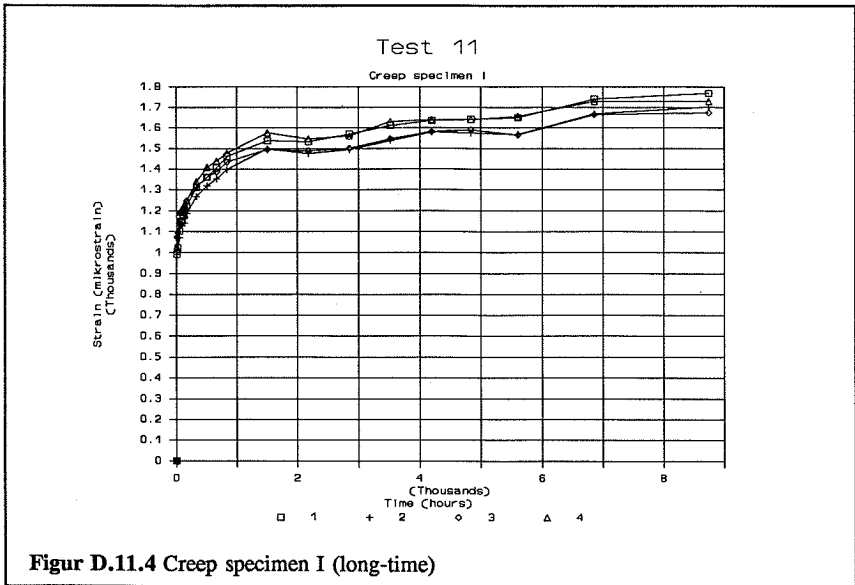
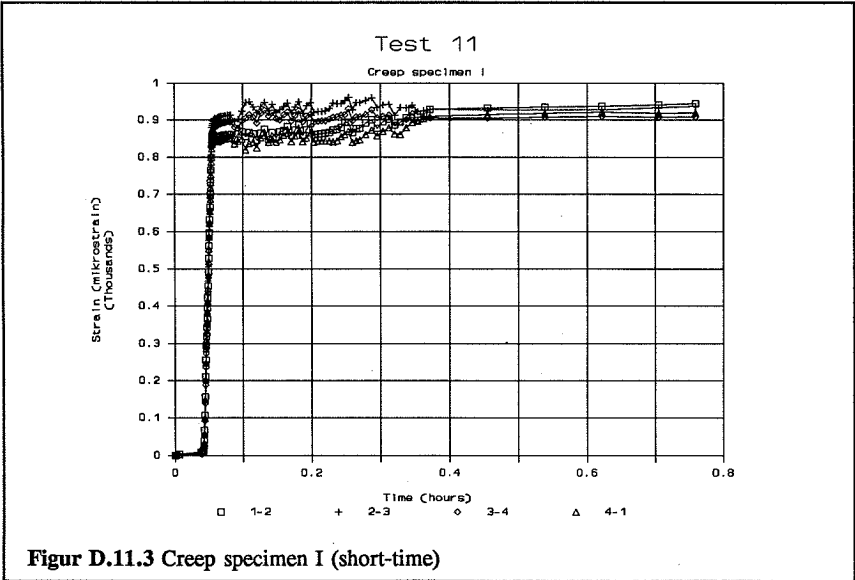
Figur D.9.10 Shrinkage specimen V (long-time)

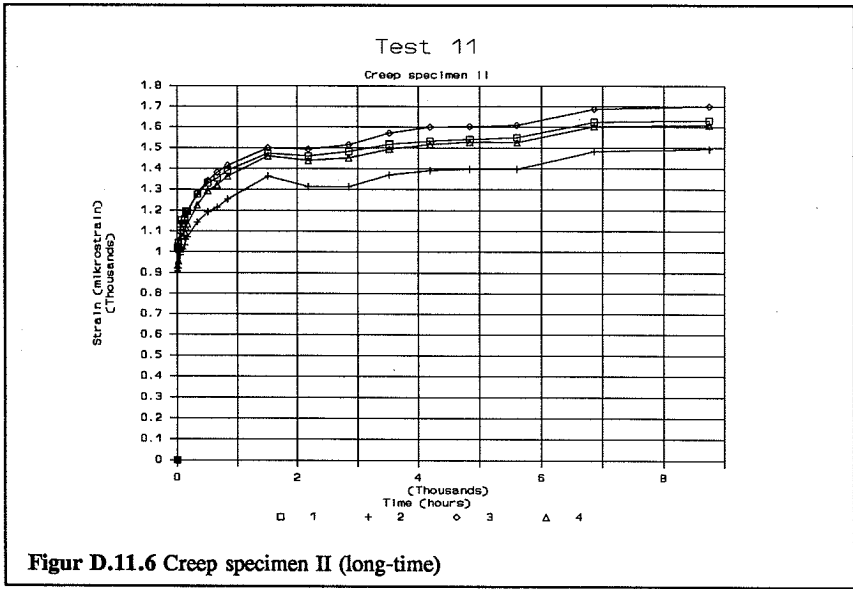
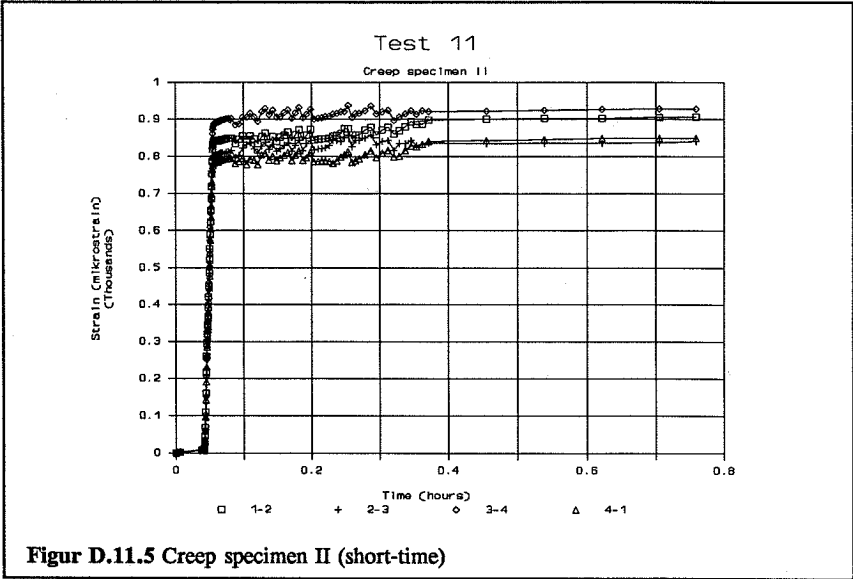


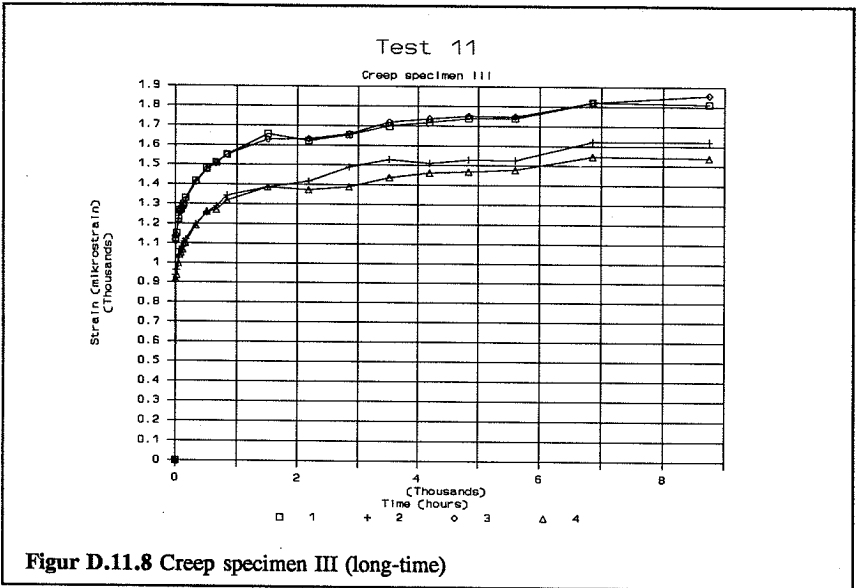
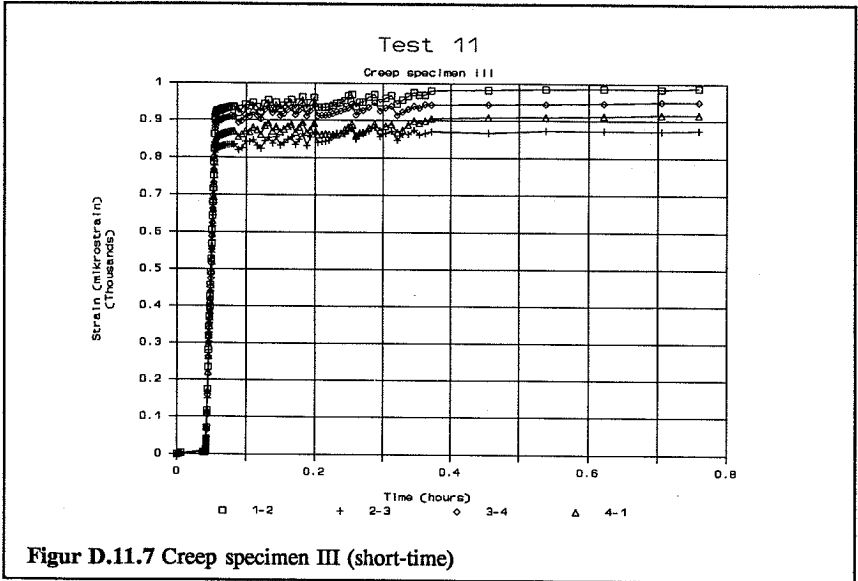


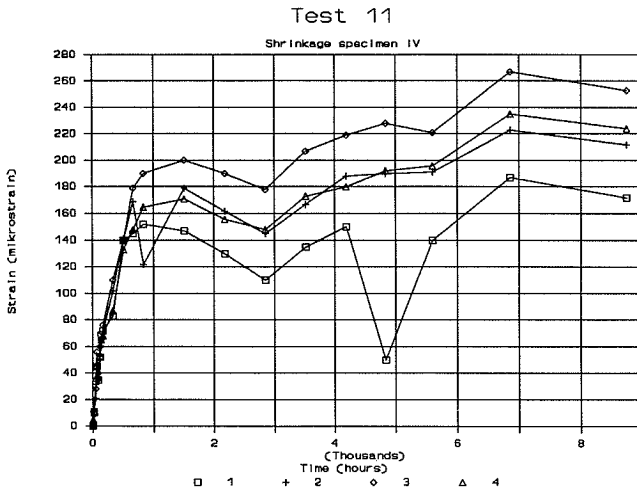
Figur D.9.13 Dynamometer strains (long-time)



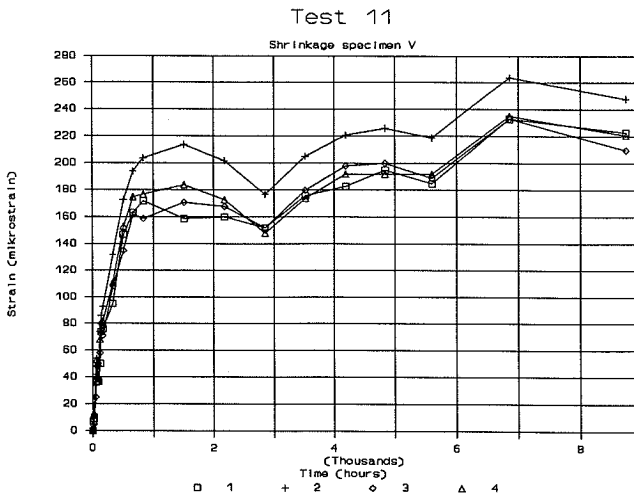




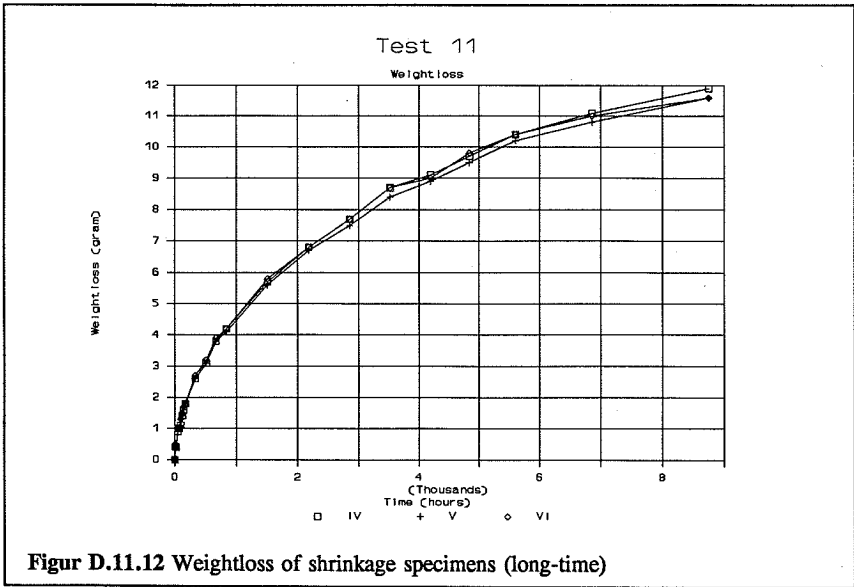
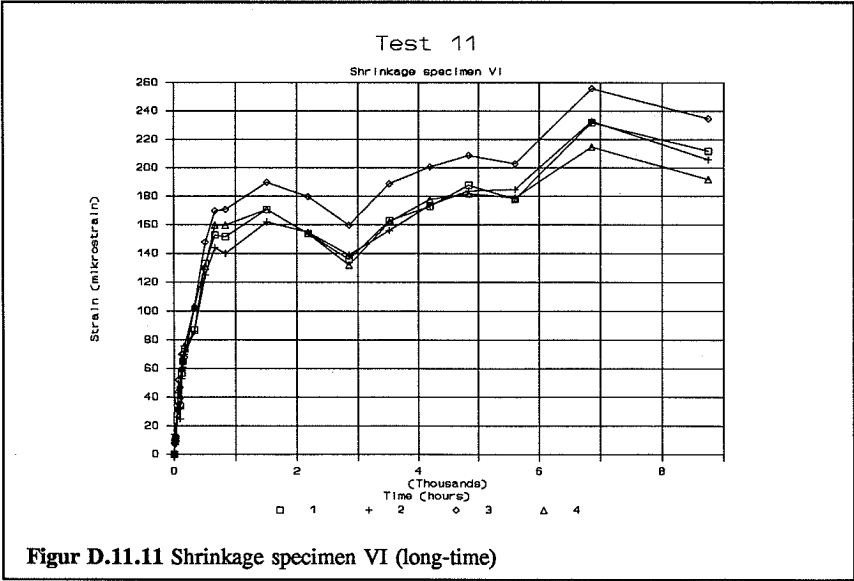


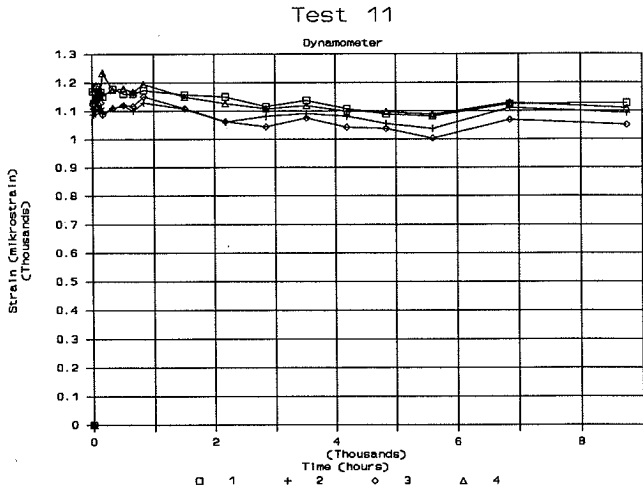


Figur D.11.9 Shrinkage specimen IV (long-time)

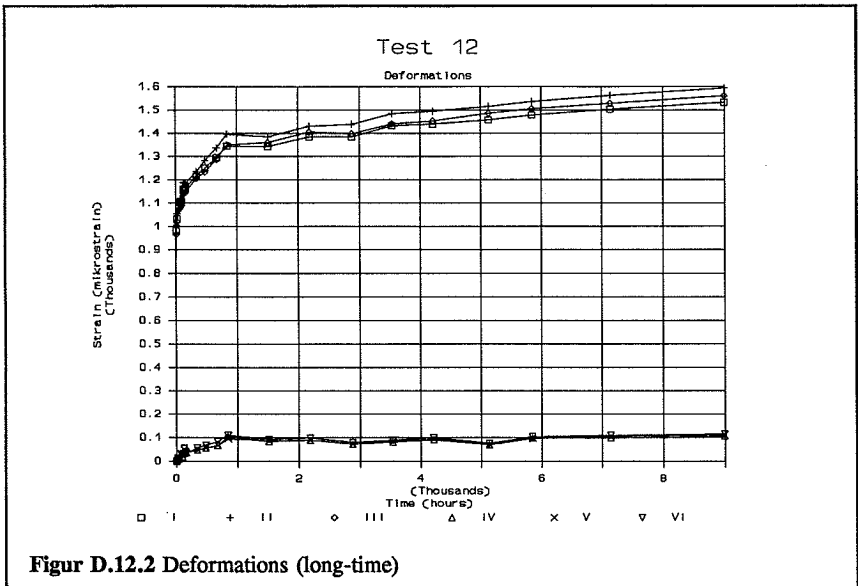
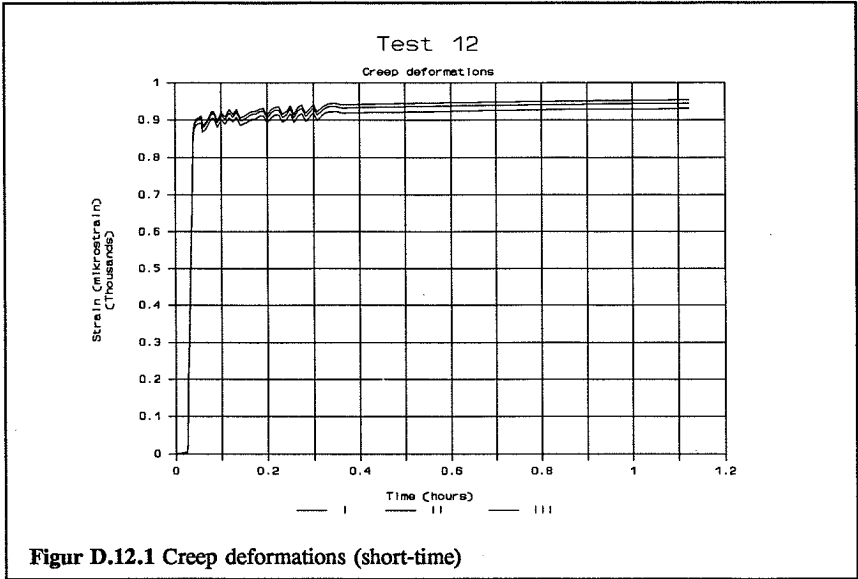


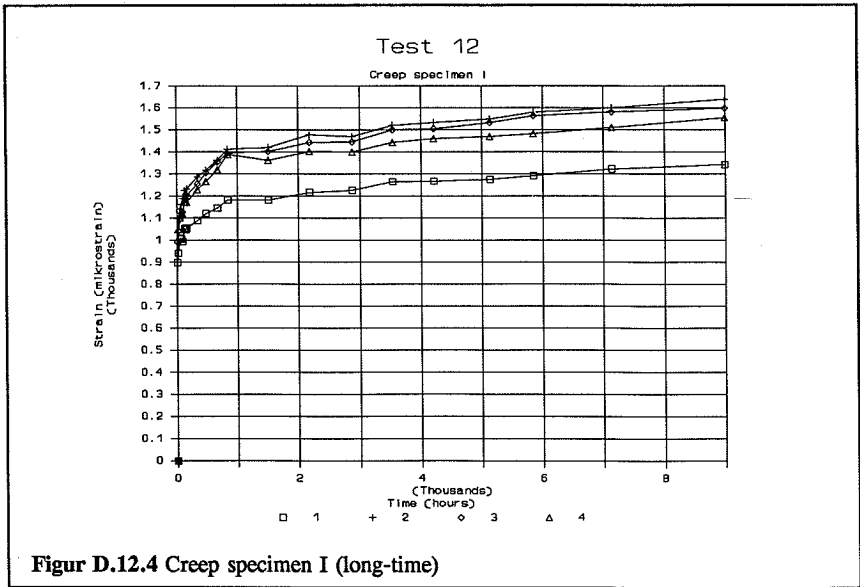
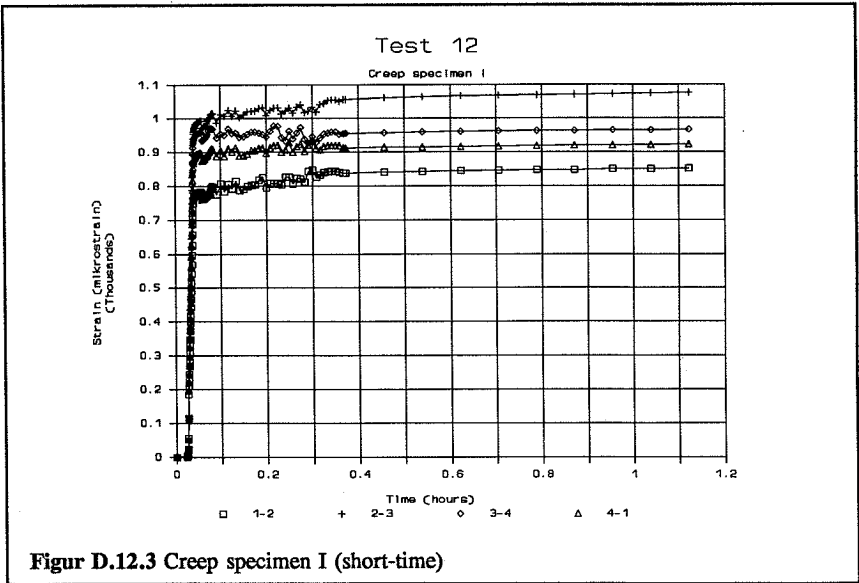
Figur D.11.10 Shrinkage specimen V (long-time)

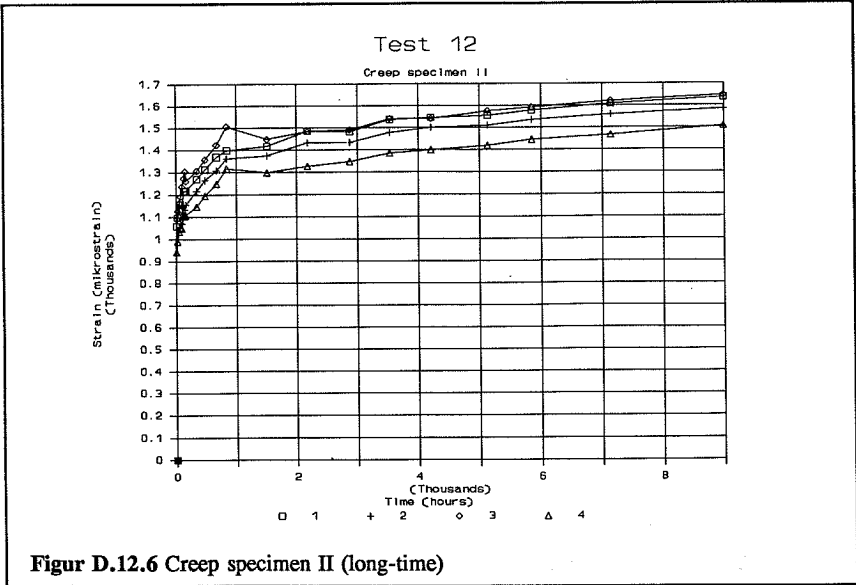
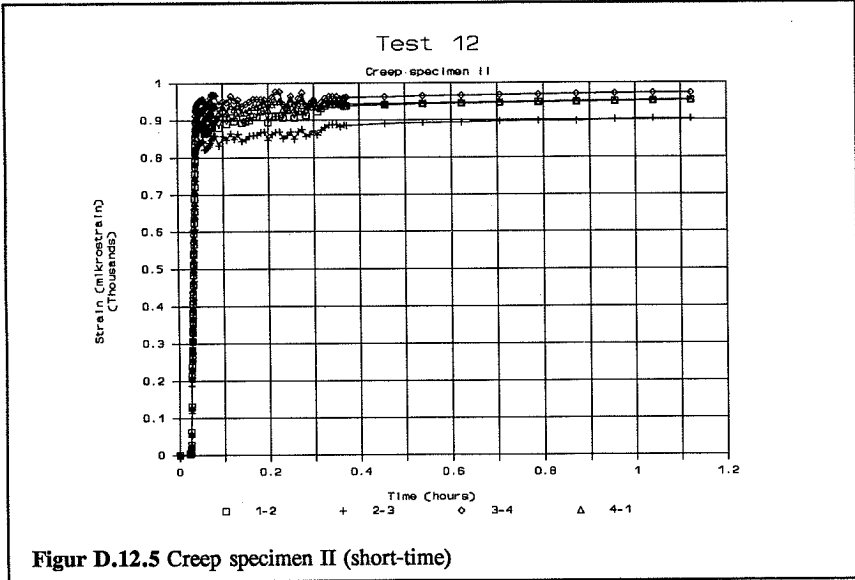


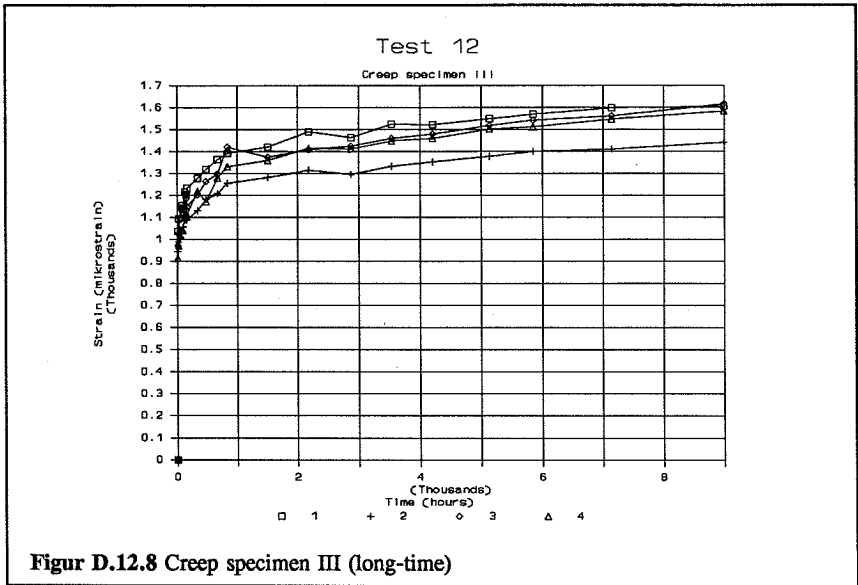
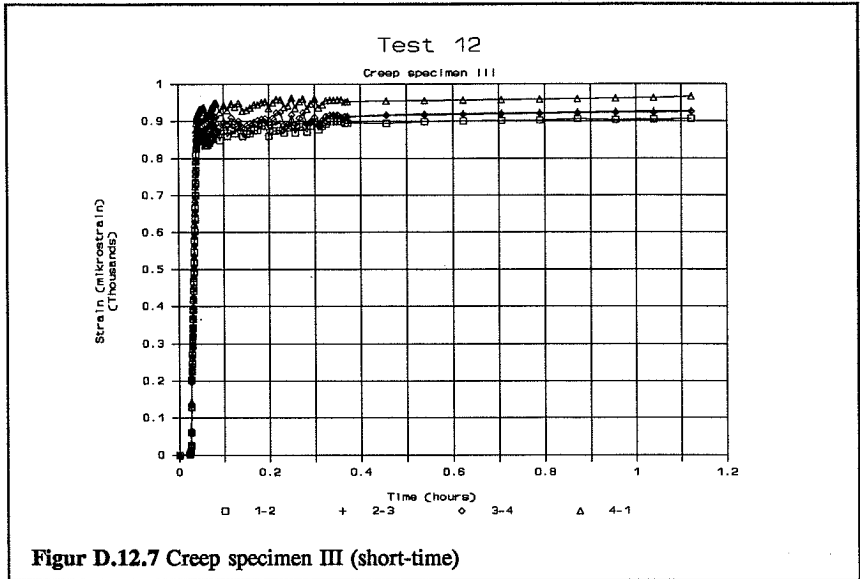


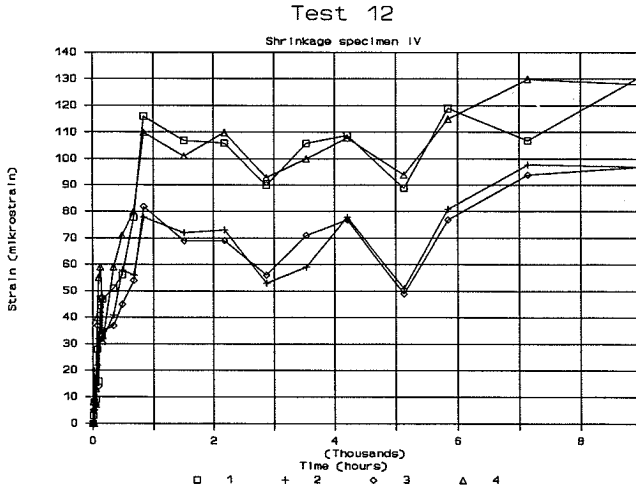
Figur D.11.13 Dynamometer strains (long-time)



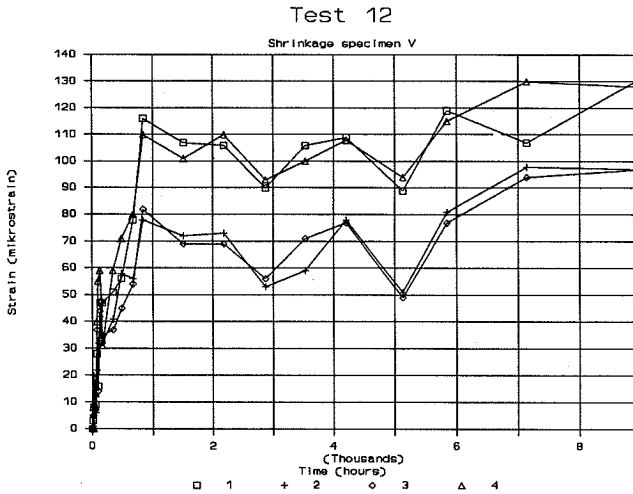




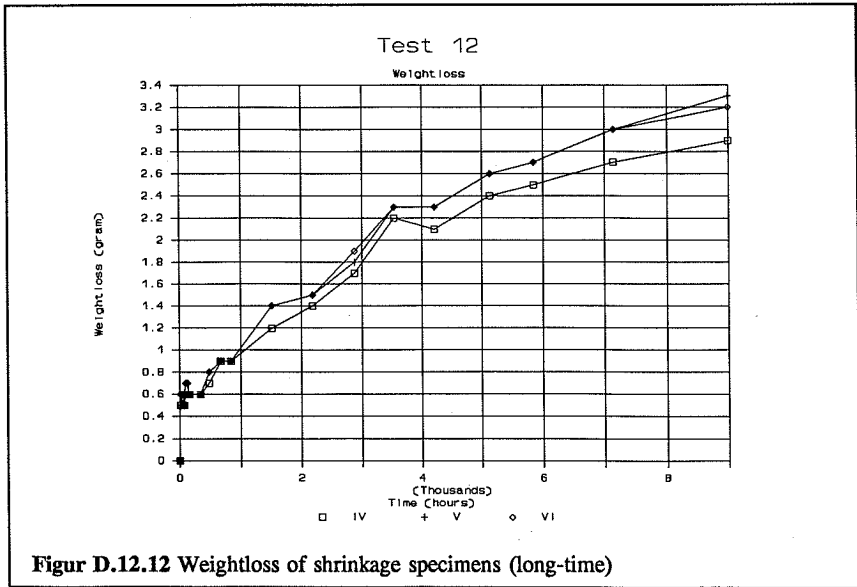
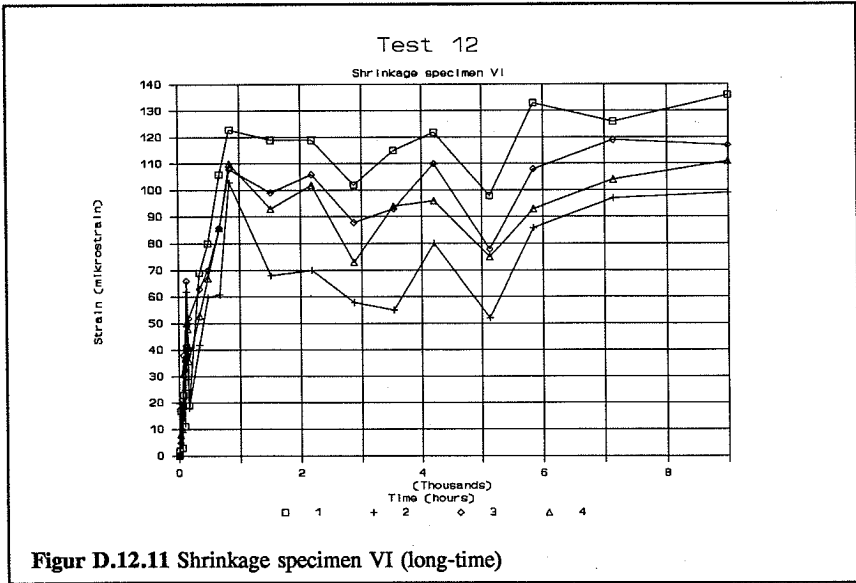


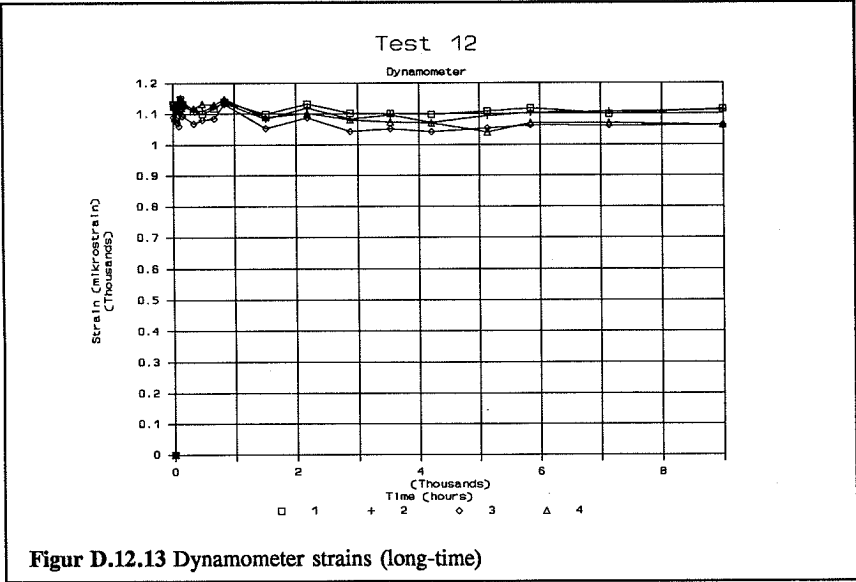


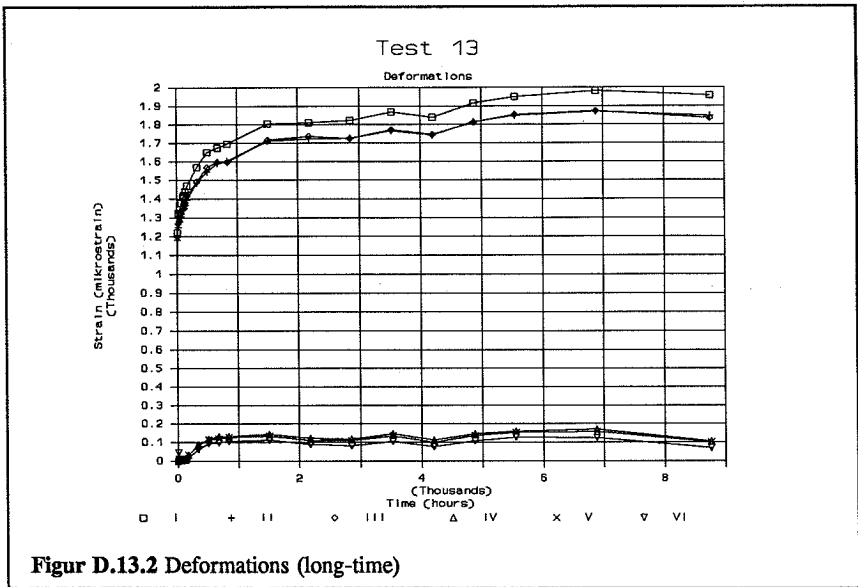
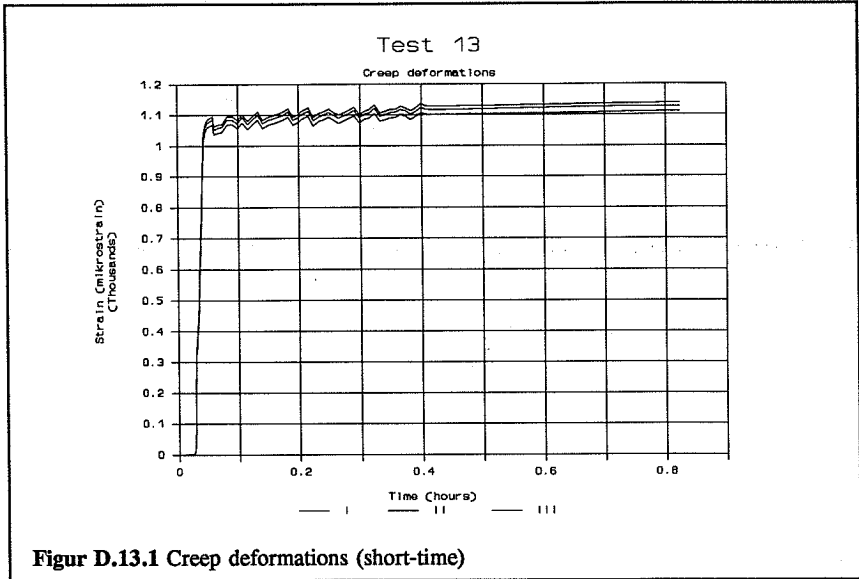
Figur D.12.9 Shrinkage specimen IV (long-time)

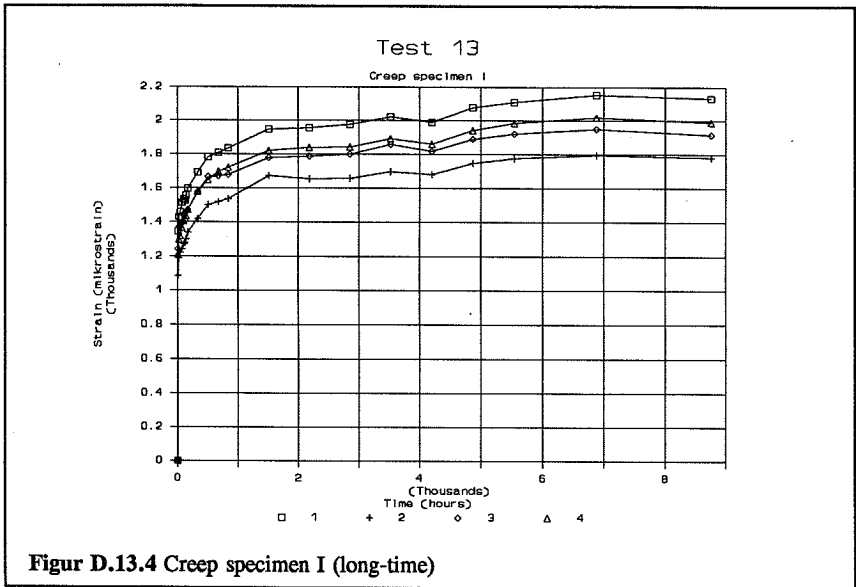
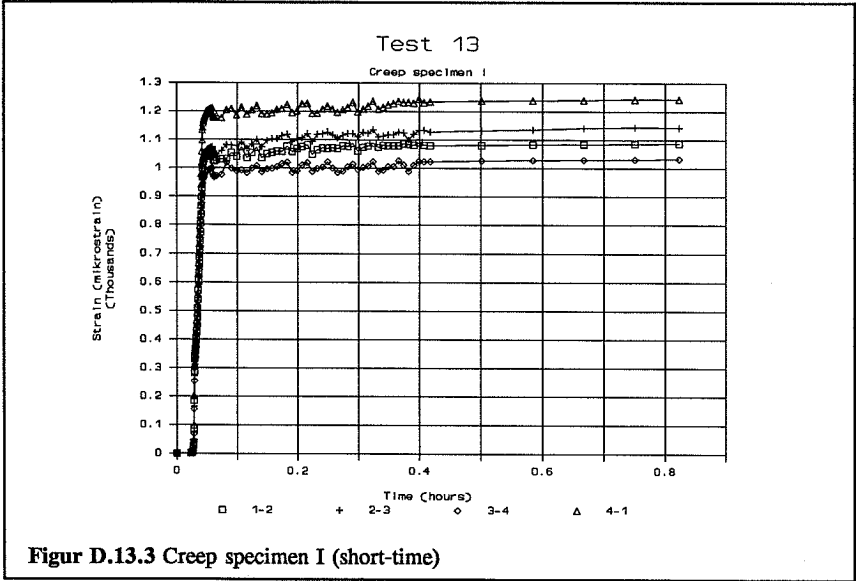


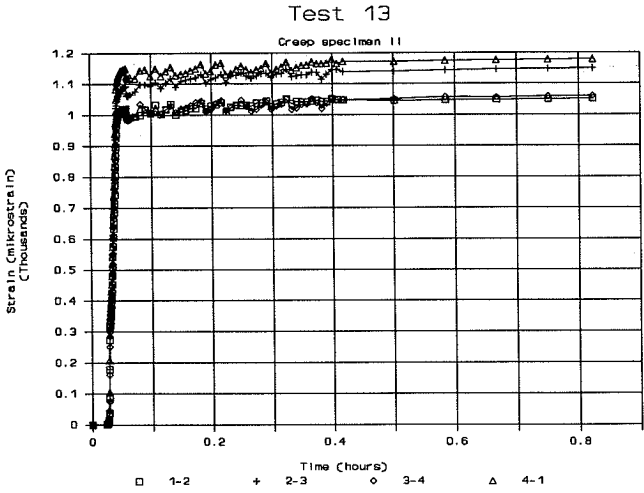
Figur D.12.10 Shrinkage specimen V (long-time)



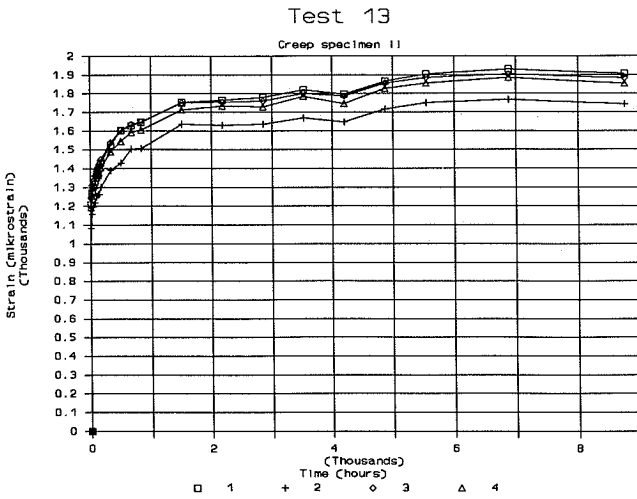




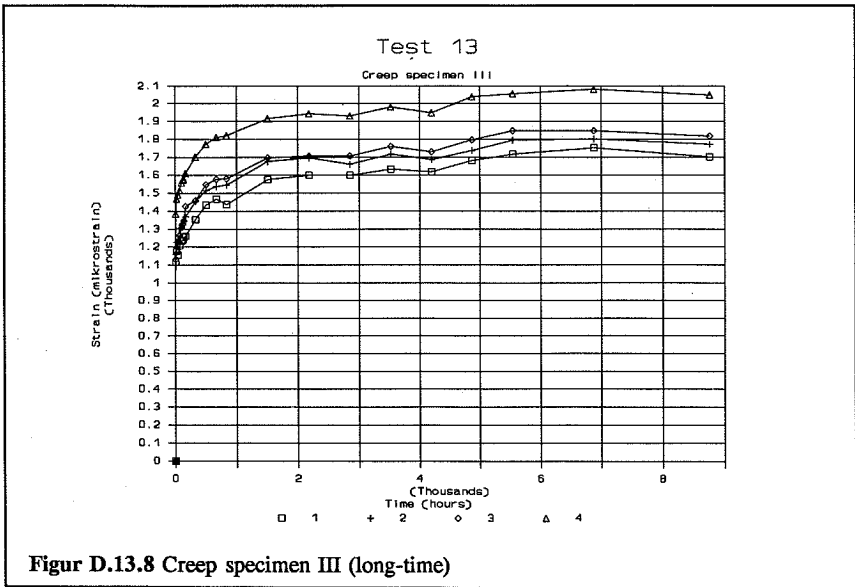
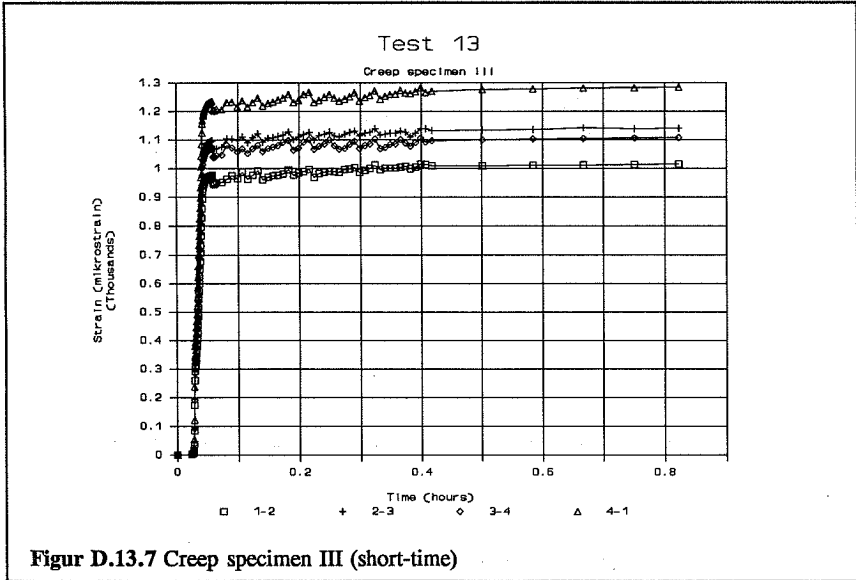


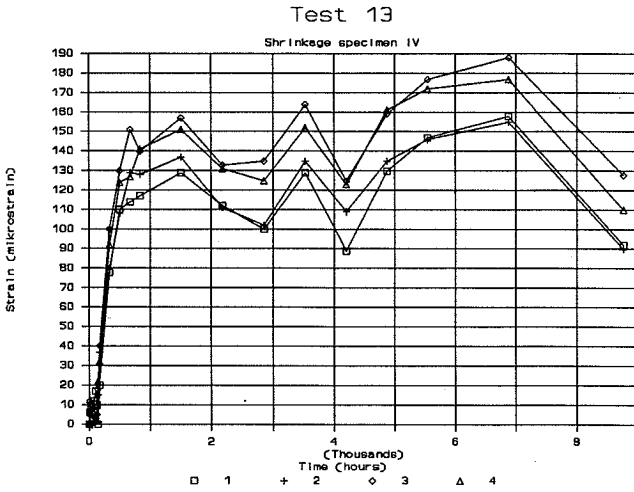


Figur D.13.5 Creep specimen II (short-time)

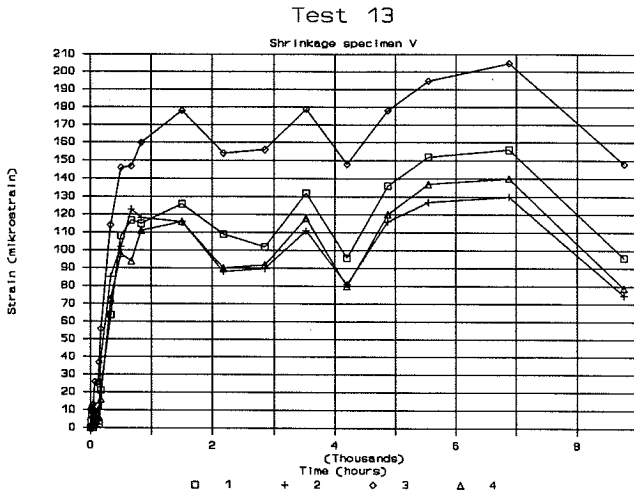


Figur D.13.6 Creep specimen II (long-time)

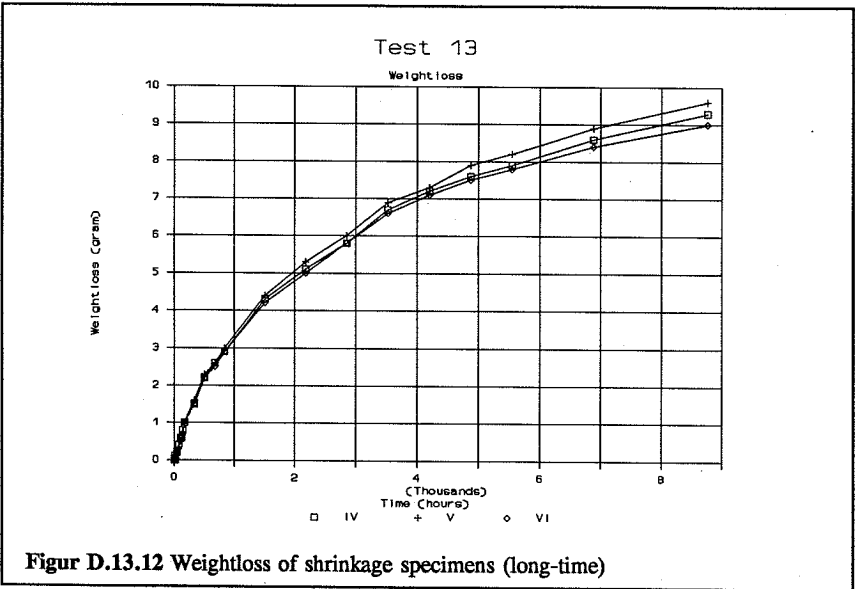
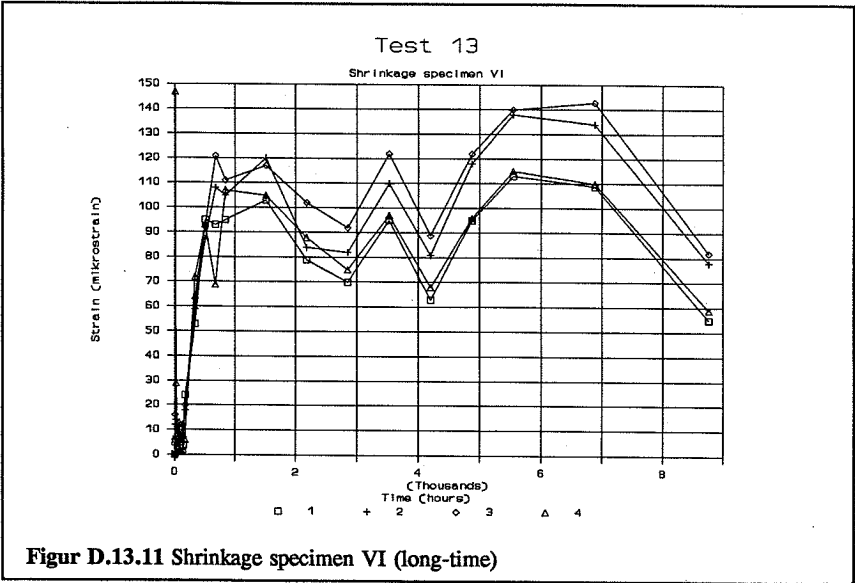


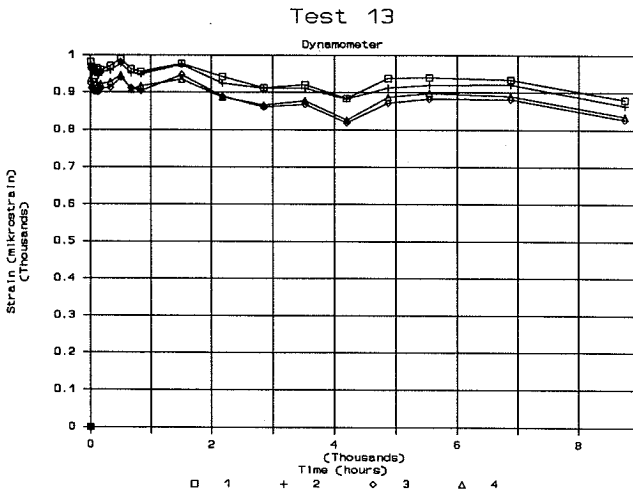


Figur D.13.9 Shrinkage specimen IV (long-time)

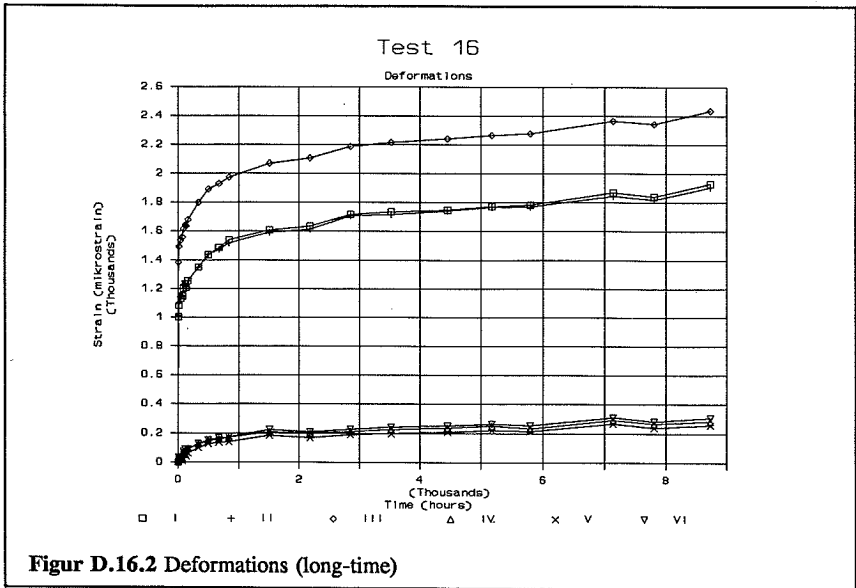
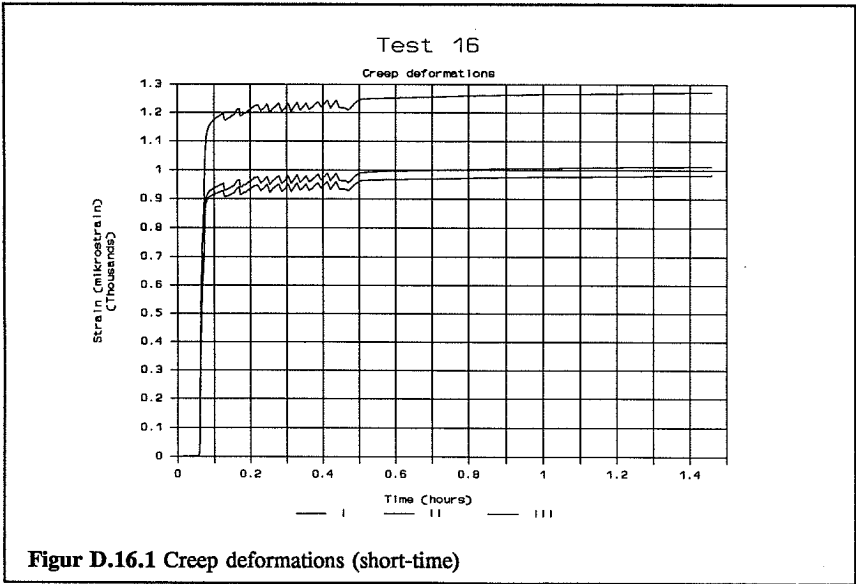


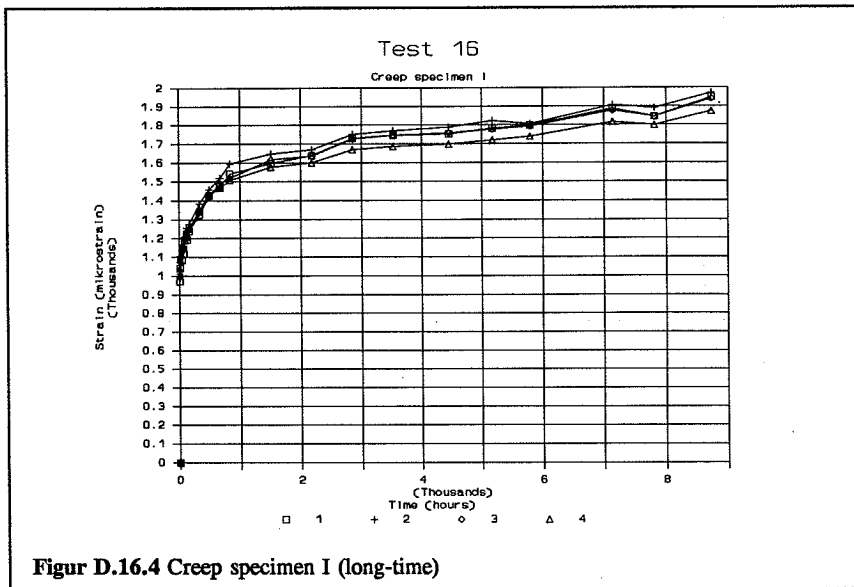
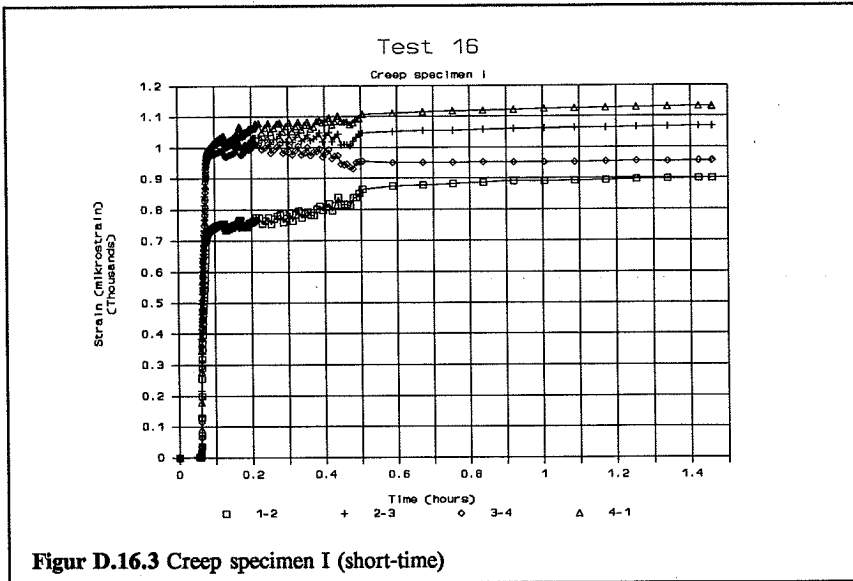
Figur D.13.10 Shrinkage specimen V (long-time)

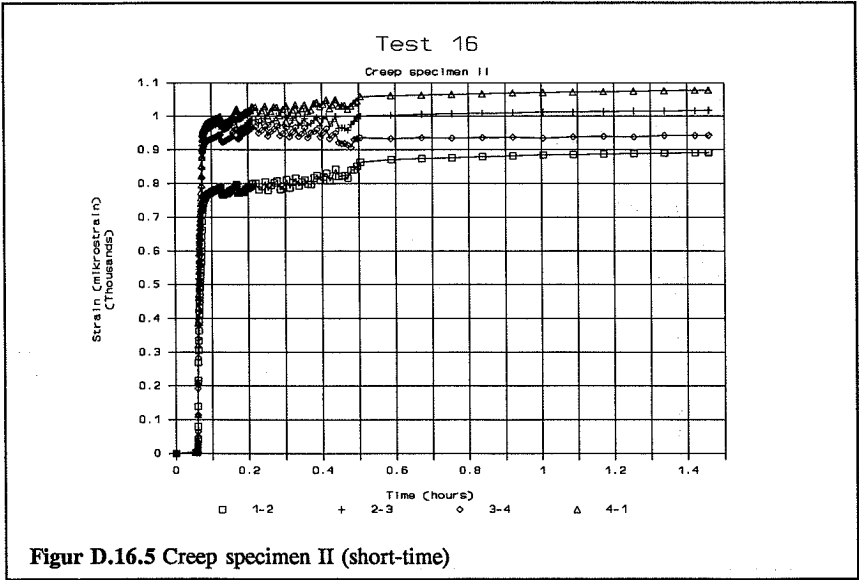




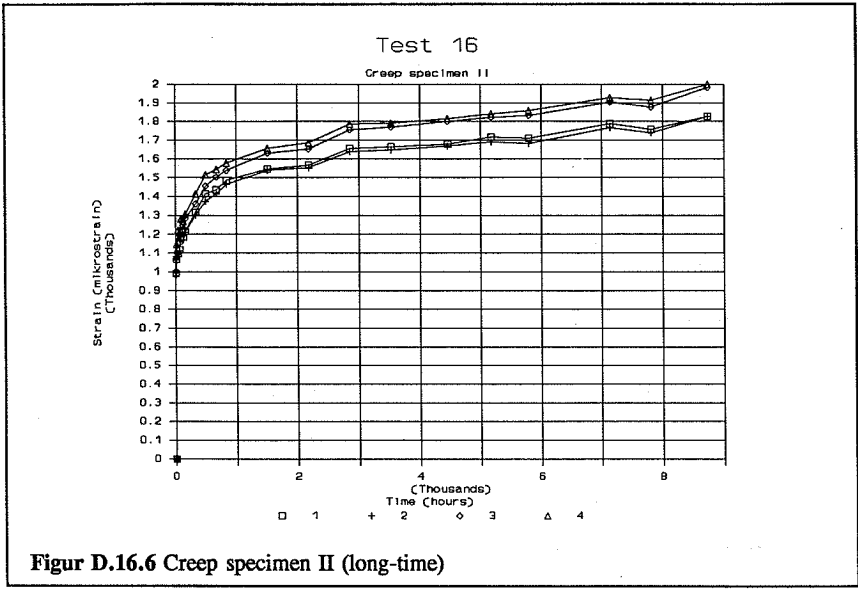
Figur D.13.13 Dynamometer strains (long-time)



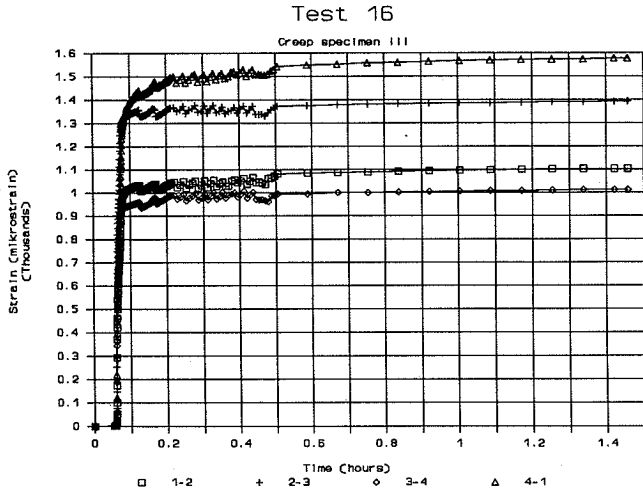




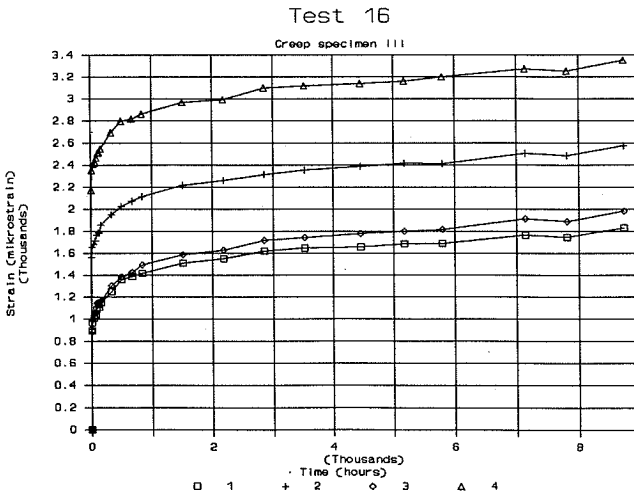
Figur D.16.5 Creep specimen II (short-time)



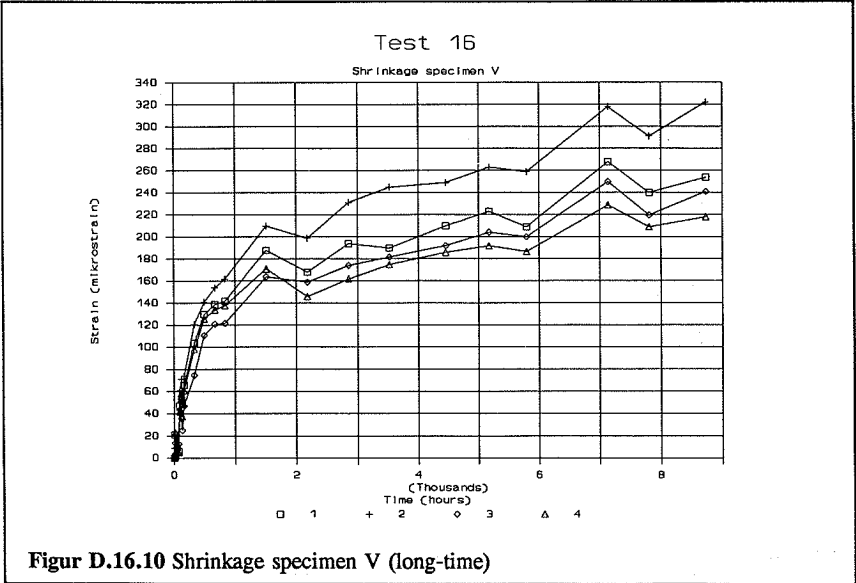
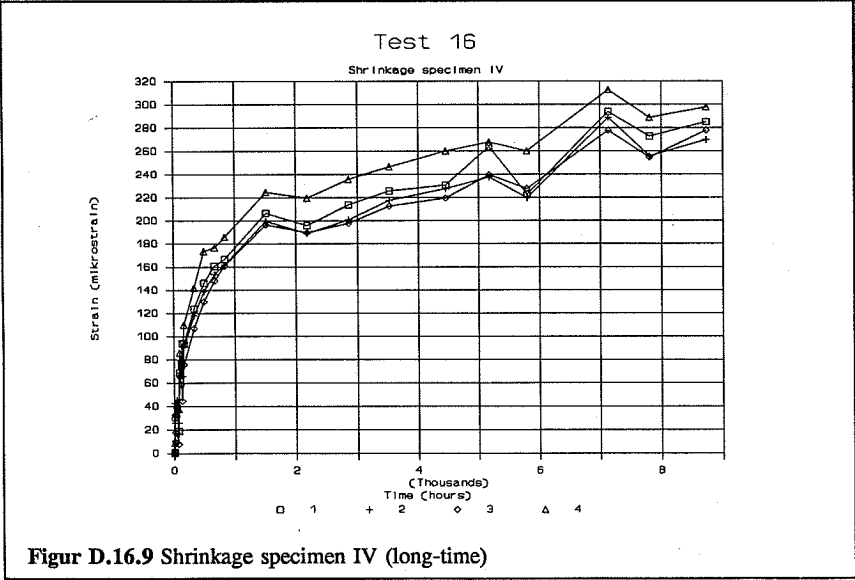
Figur D.16.6 Creep specimen II (long-time)

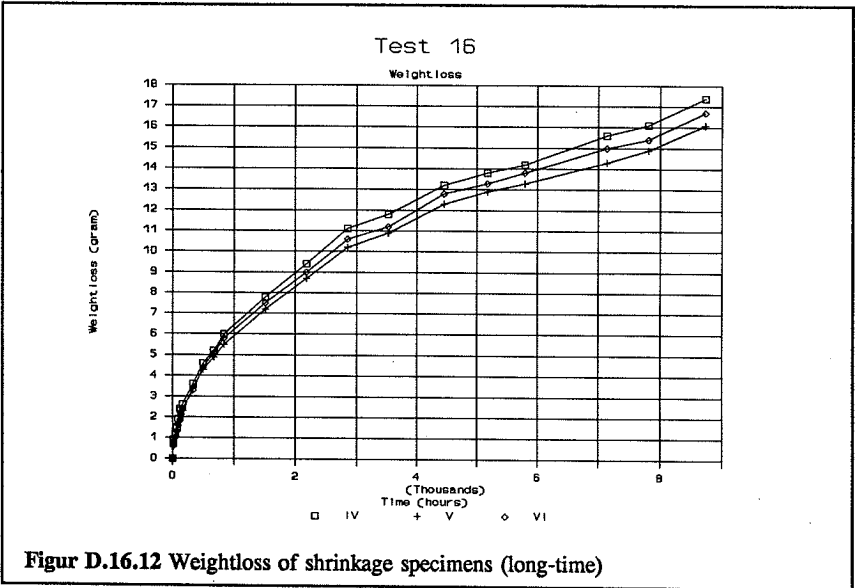
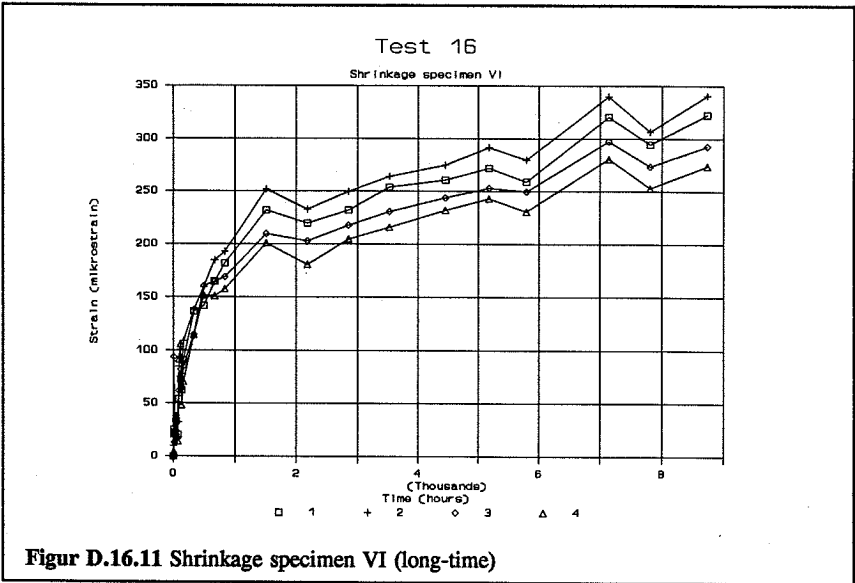


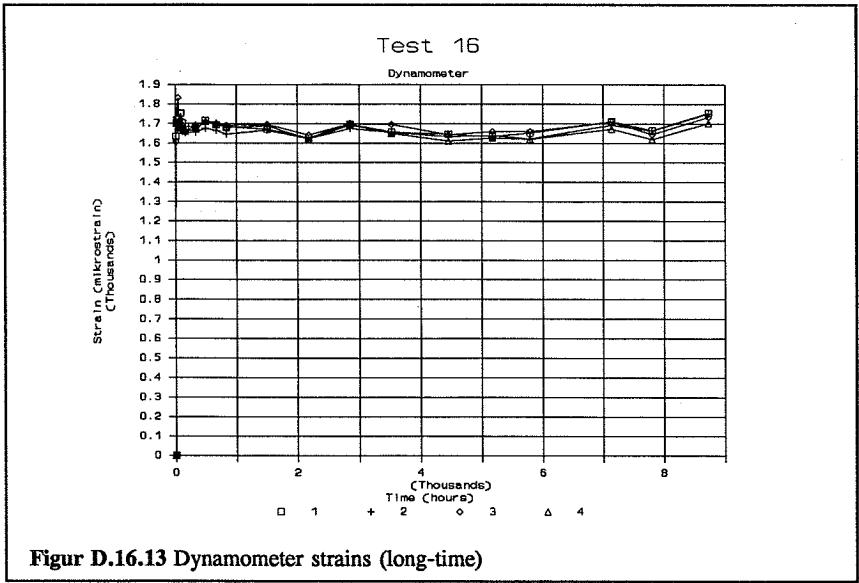
Figur D.16.7 Creep specimen III (short-time)

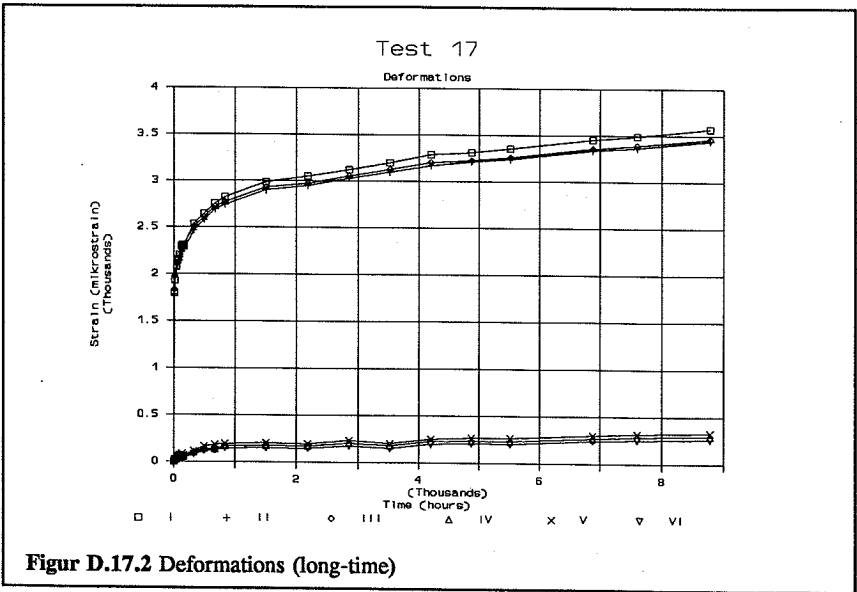
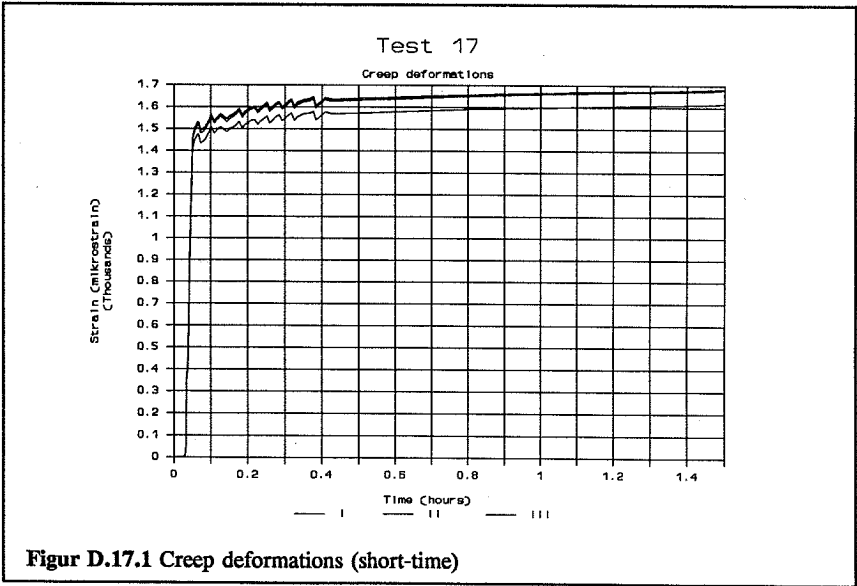


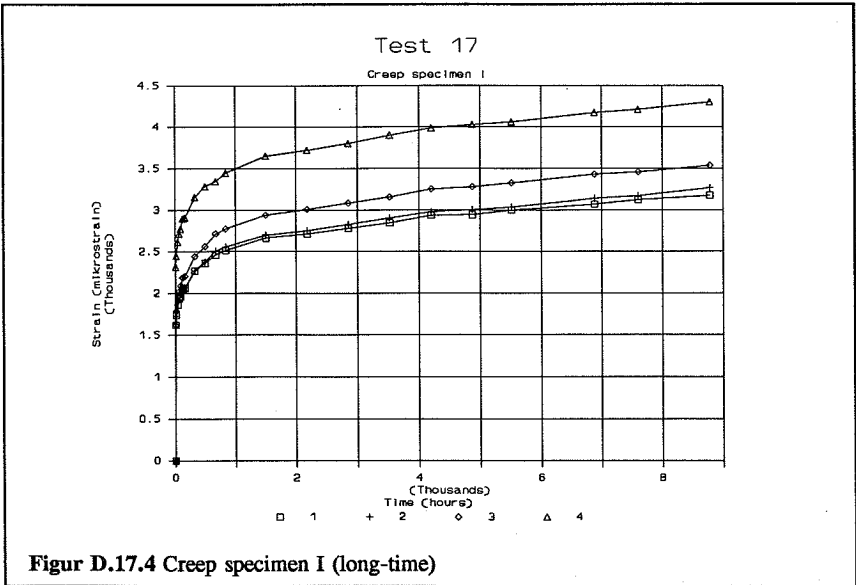
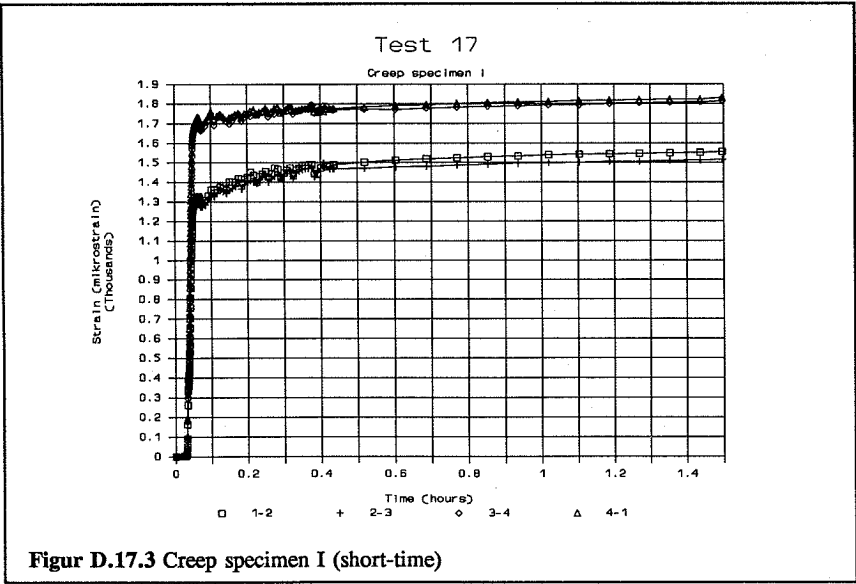
Figur D.16.8 Creep specimen III (long-time)

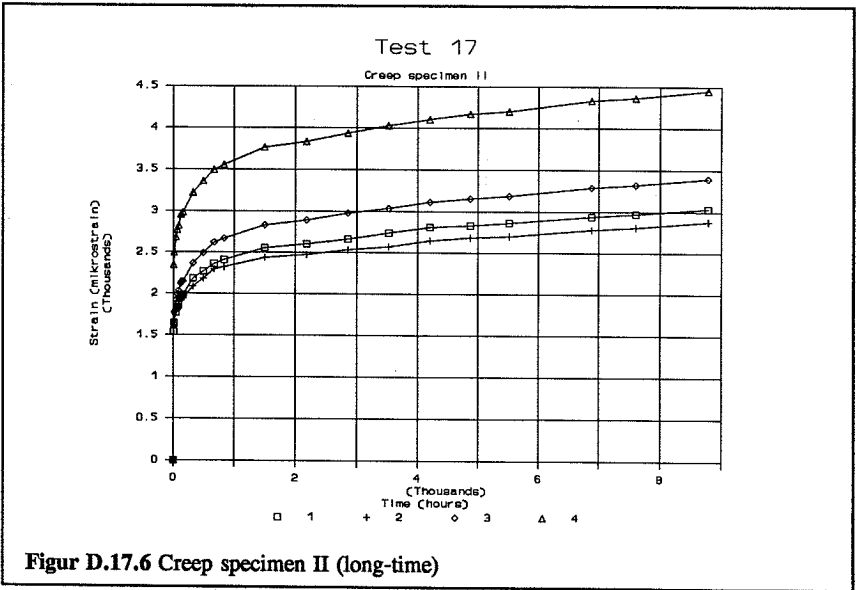
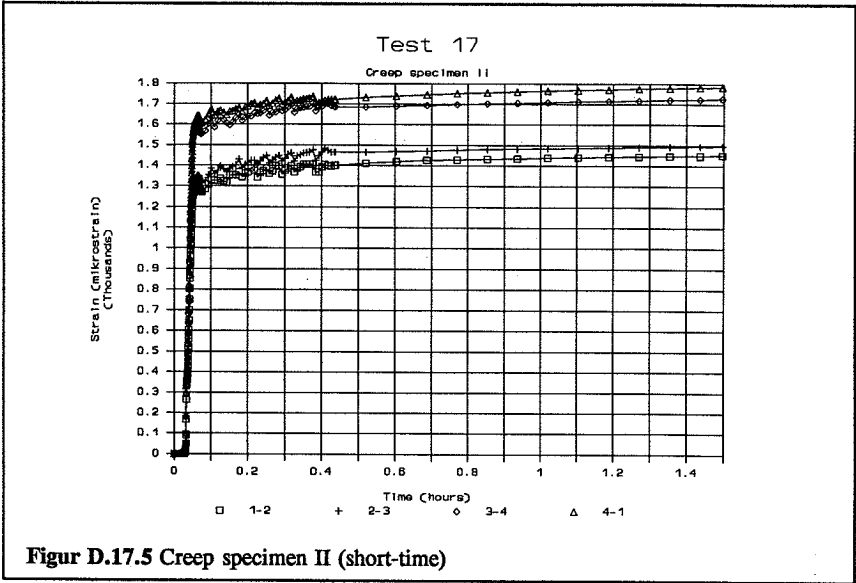


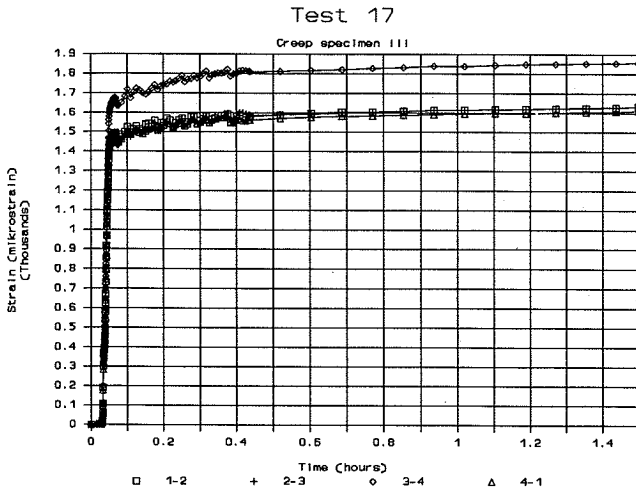




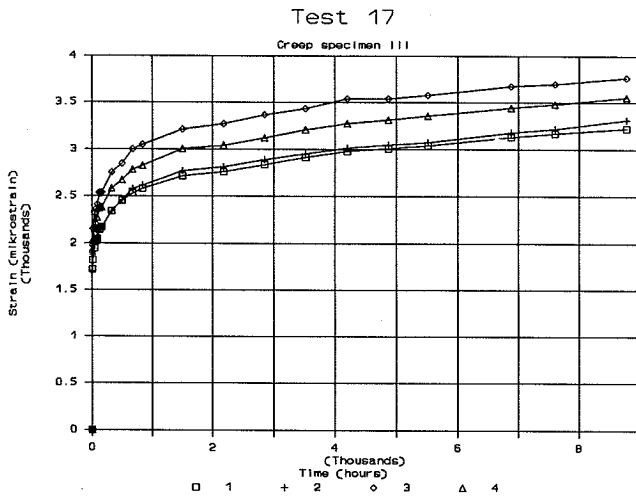




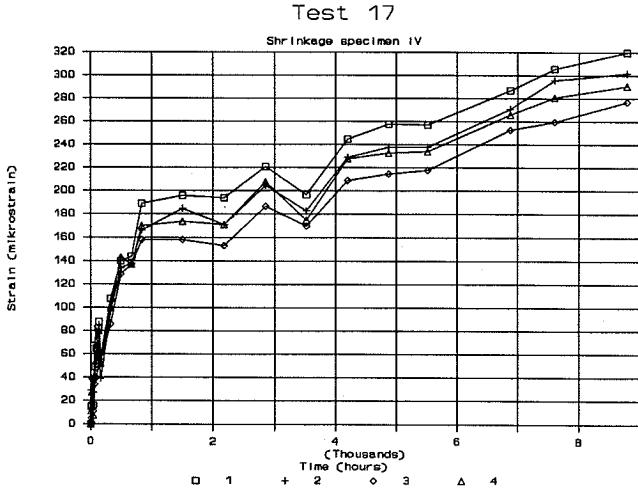




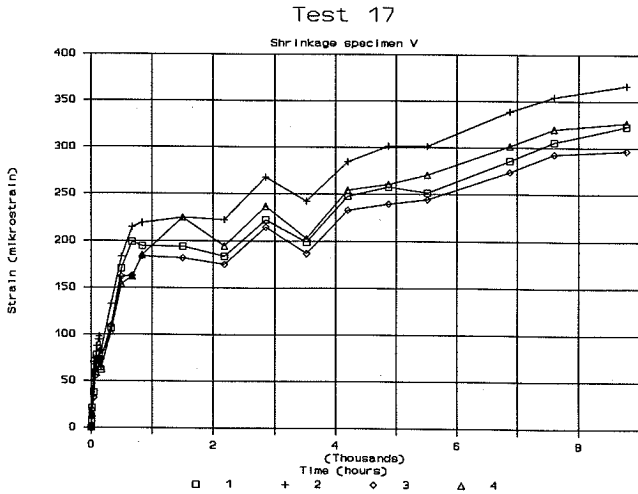
Figur D.17.7 Creep specimen III (short-time)



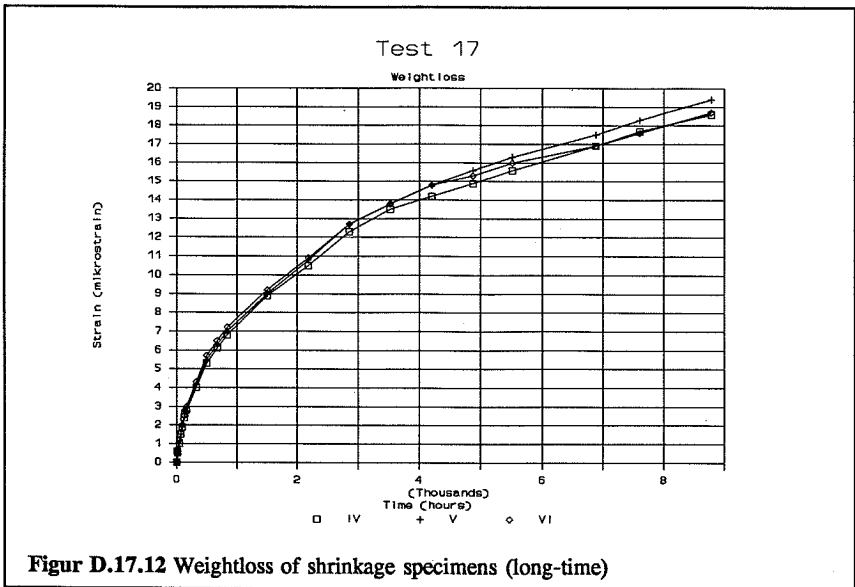
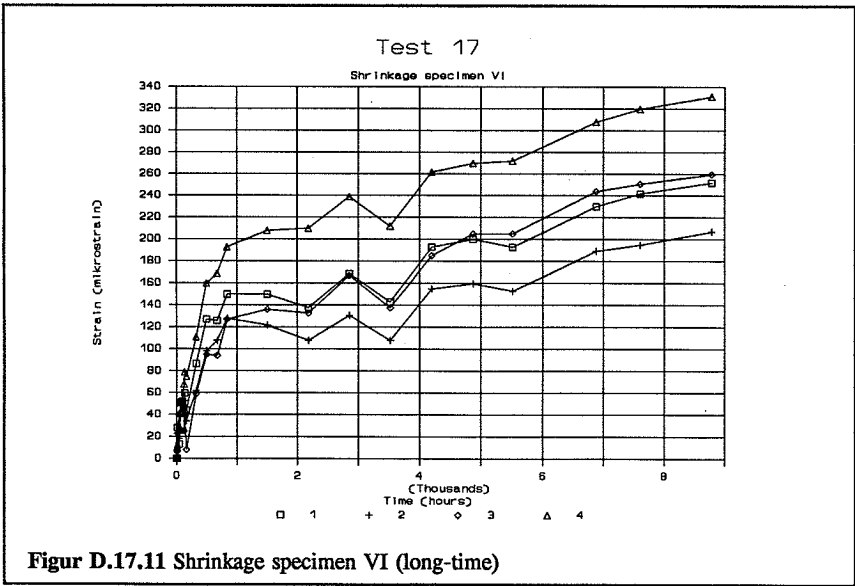
Figur D.17.8 Creep specimen III (long-time)

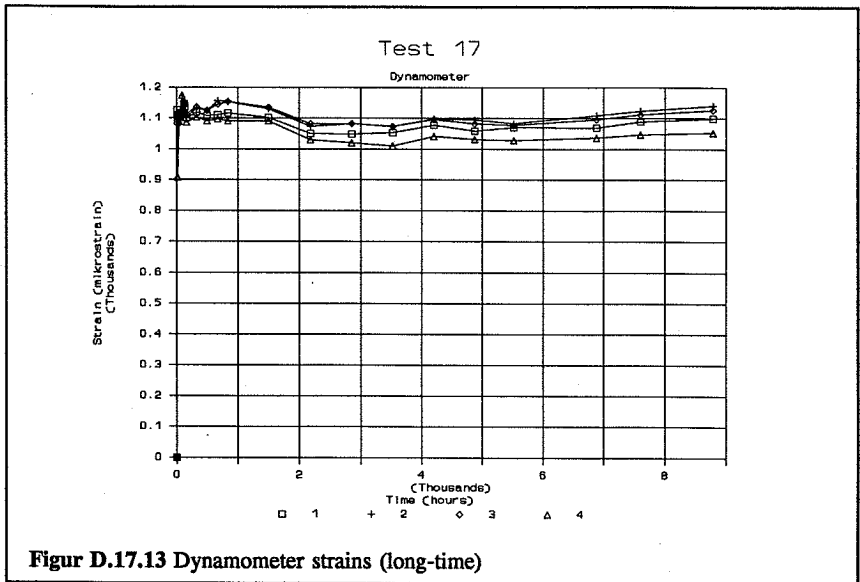


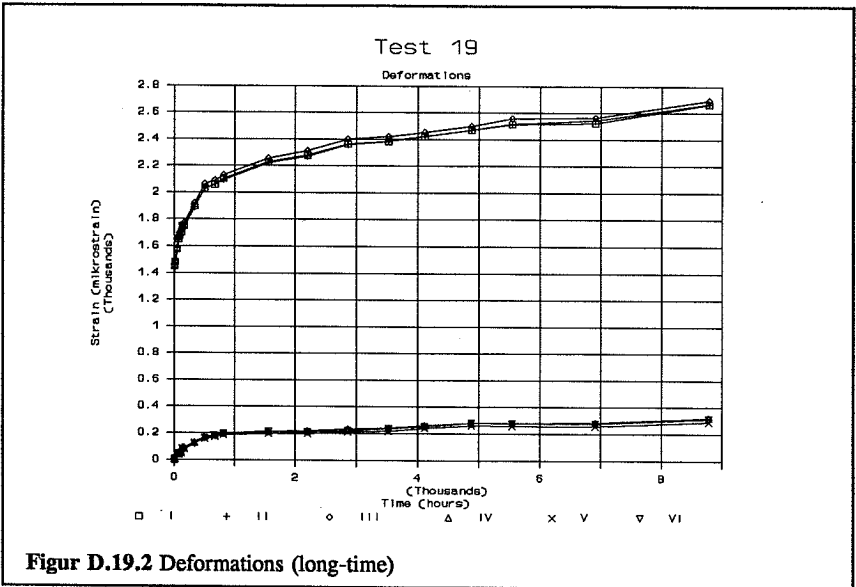
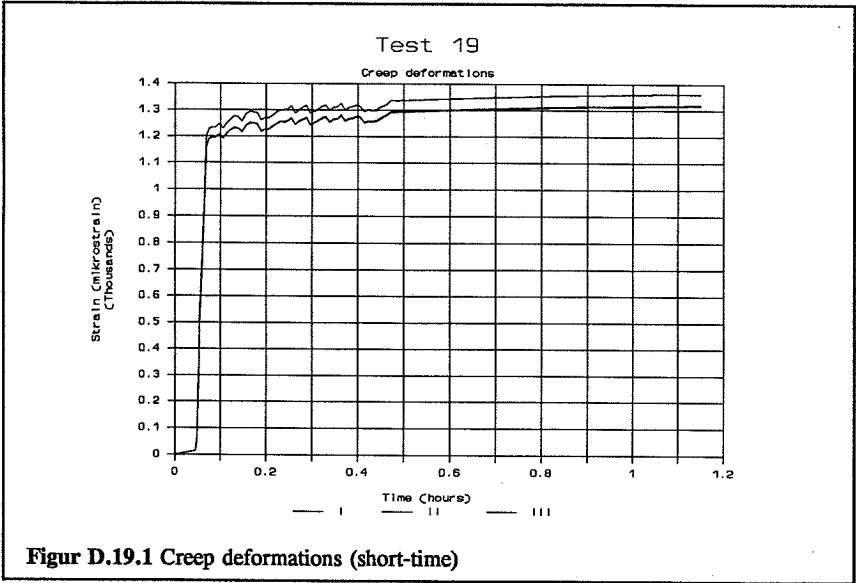
Figur D.17.9 Shrinkage specimen IV (long-time)

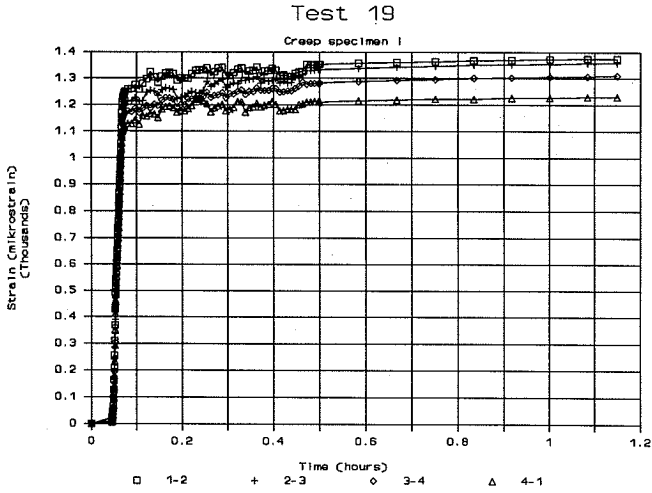


Figur D.17.10 Shrinkage specimen V (long-time)

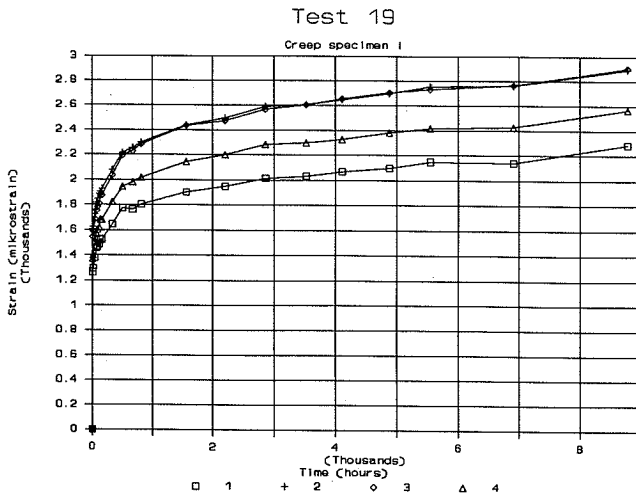




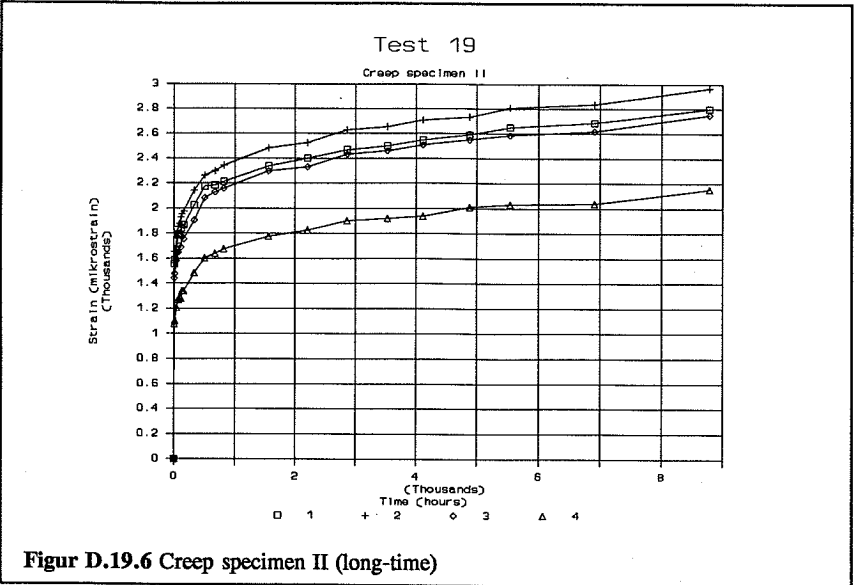
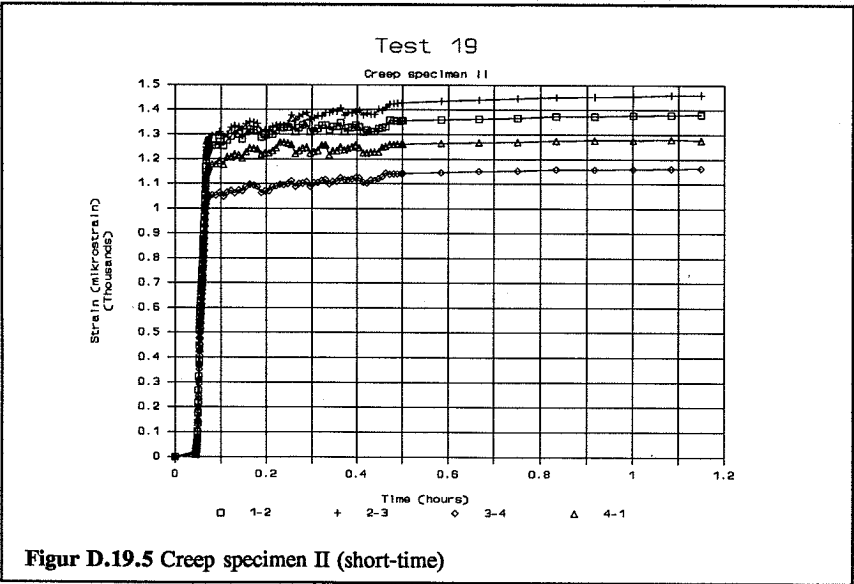


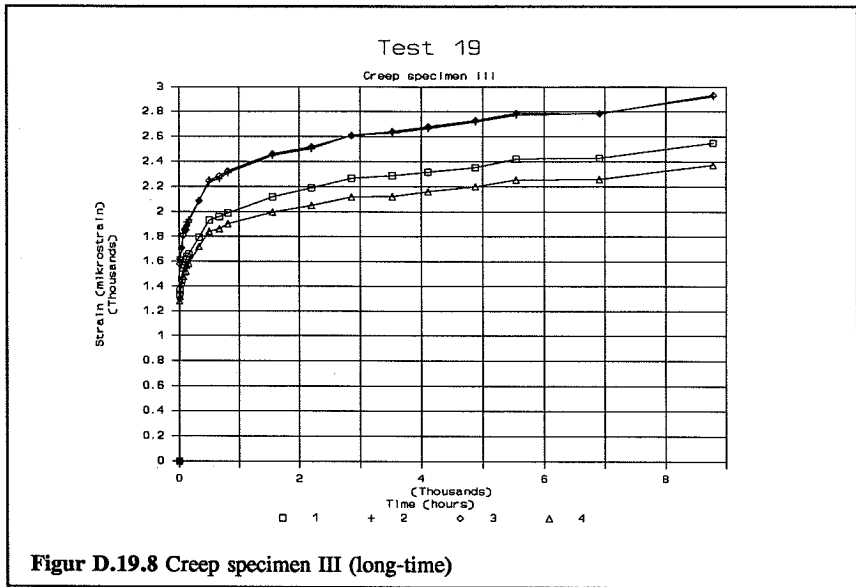
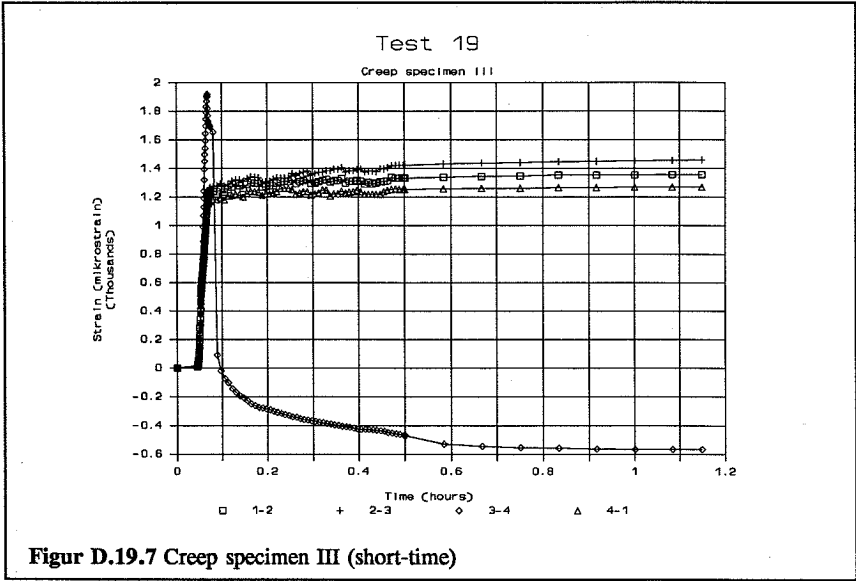


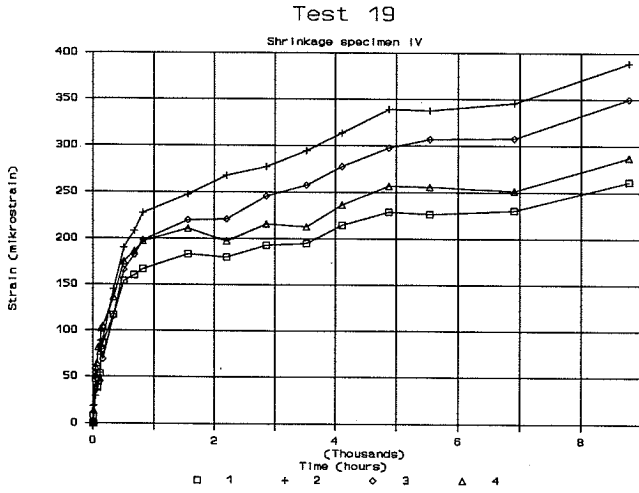
Figur D.19.3 Creep specimen I (short-time)



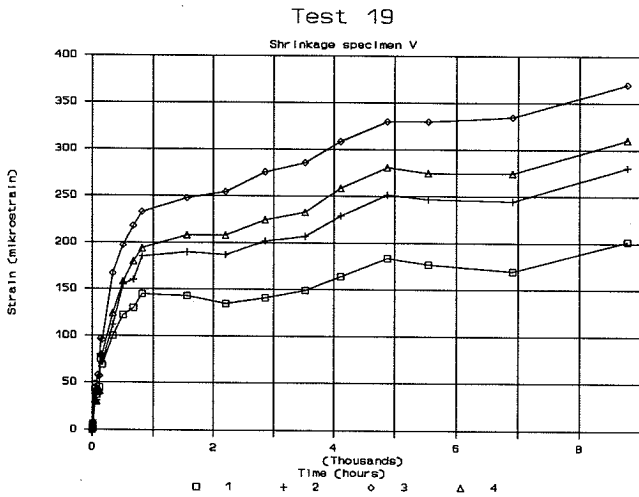
Figur D.19.4 Creep specimen I (long-time)







Figur D.19.9 Shrinkage specimen IV (long-time)



Figur D.19.10 Shrinkage specimen V (long-time)

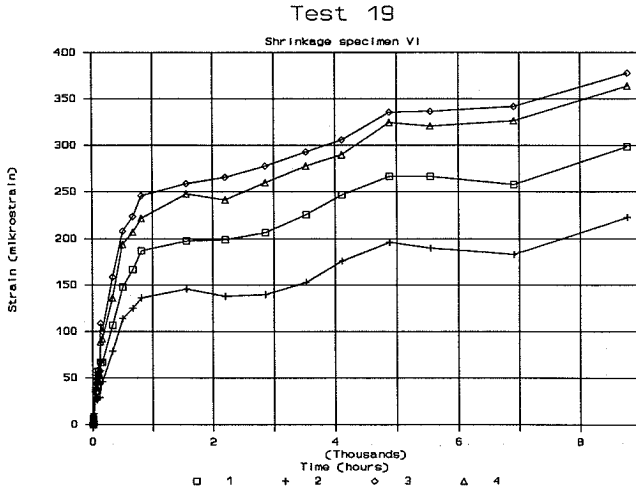


Figure D.19.11 Shrinkage specimen VI (long-time)

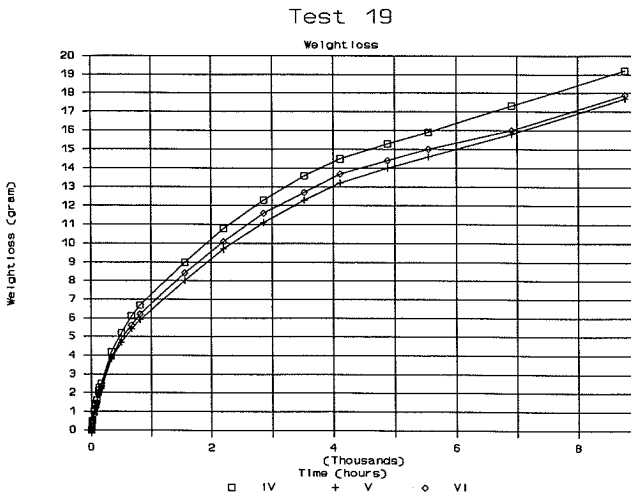
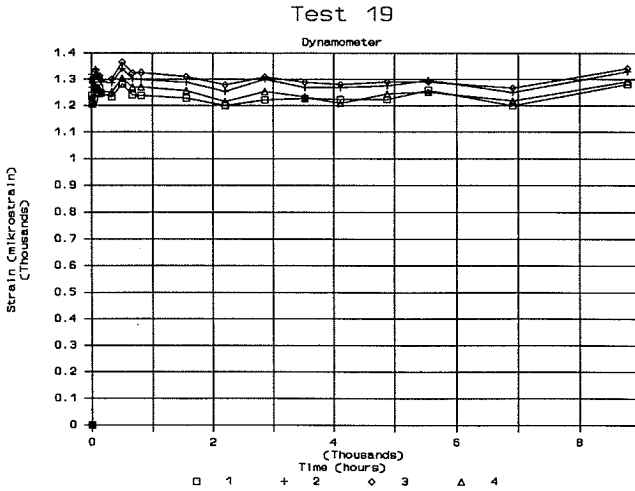
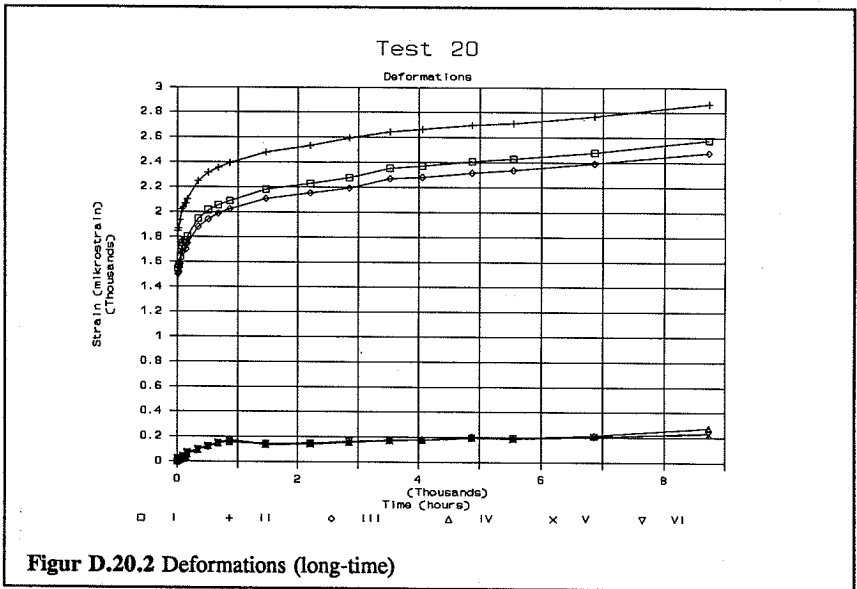
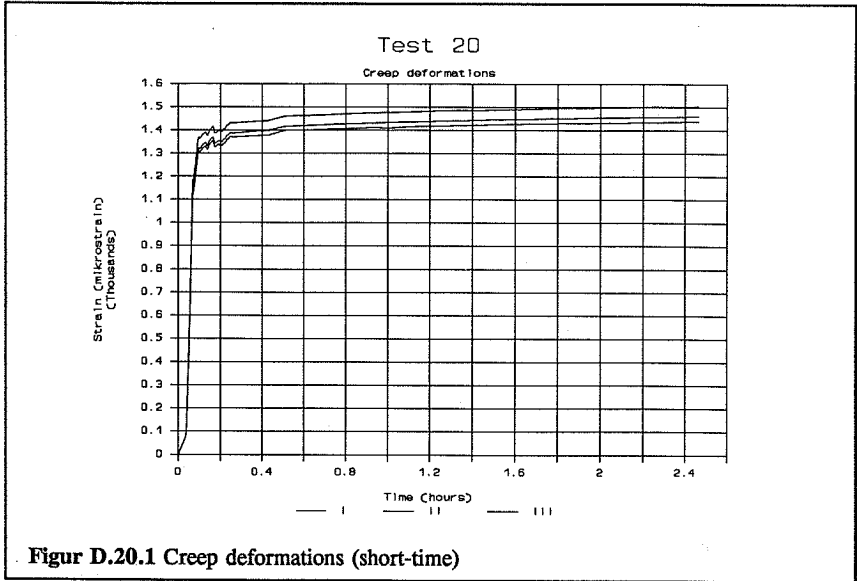
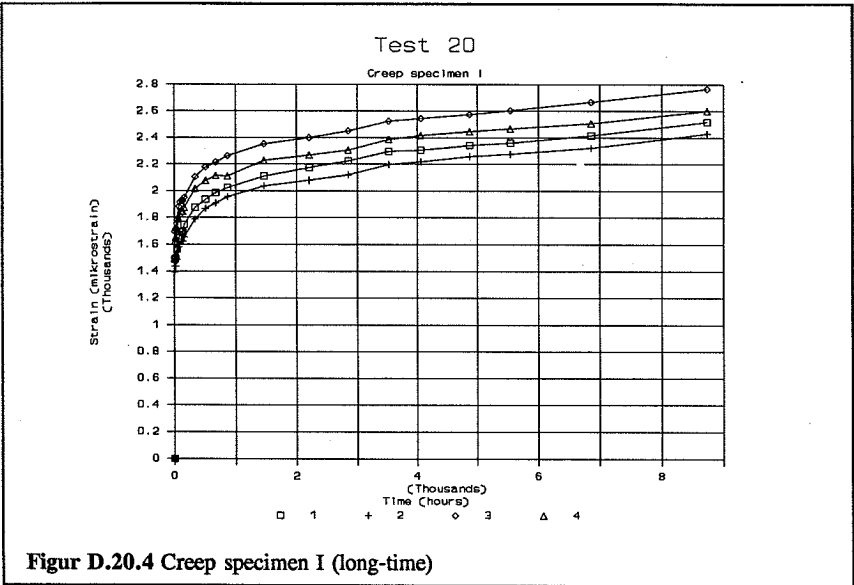
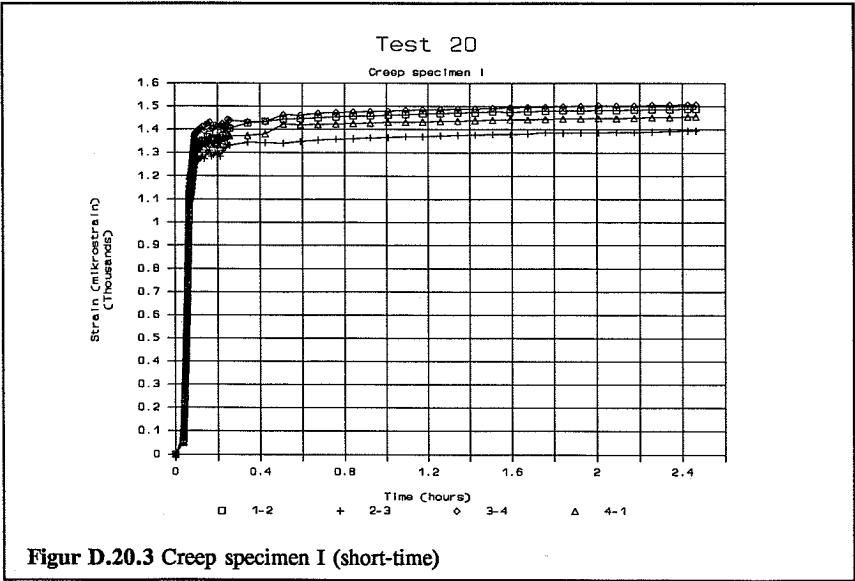


Figure D.19.12 Weightloss of shrinkage specimens (long-time)



Figur D.19.13 Dynamometer strains (long-time)





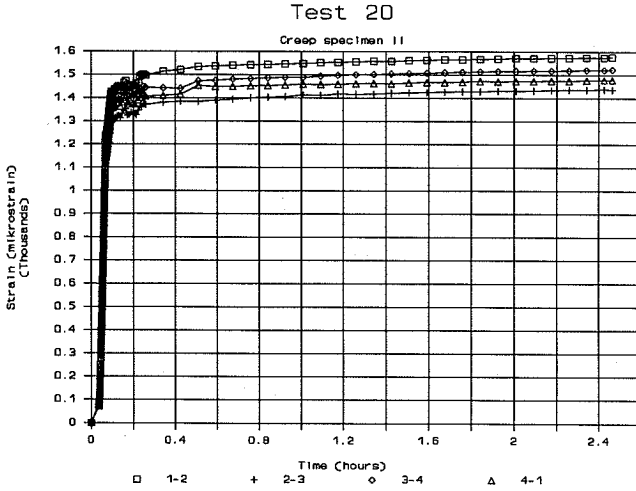


Figure D.20.5 Creep specimen II (short-time)

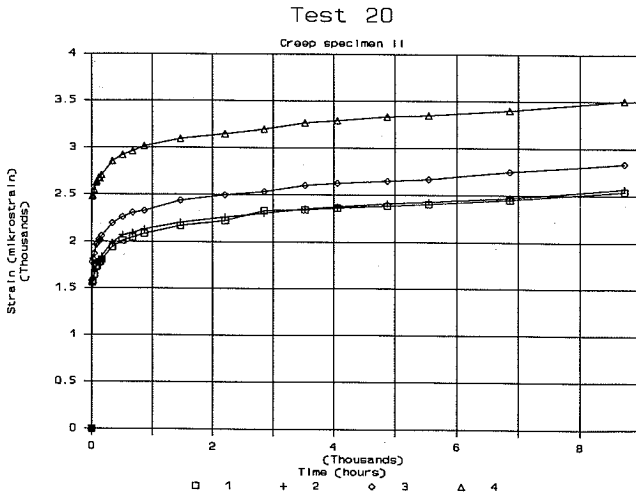
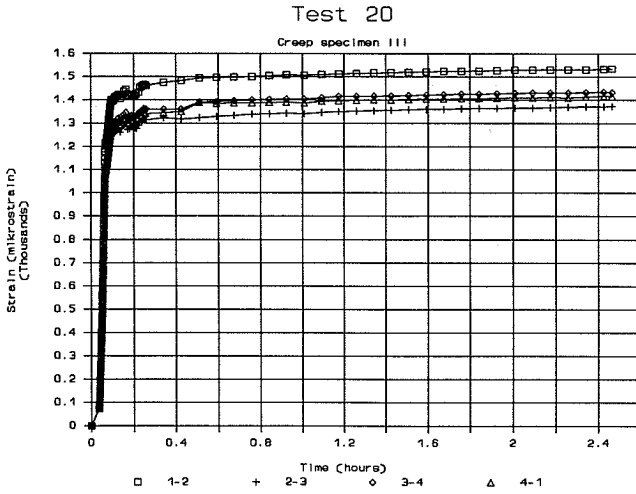
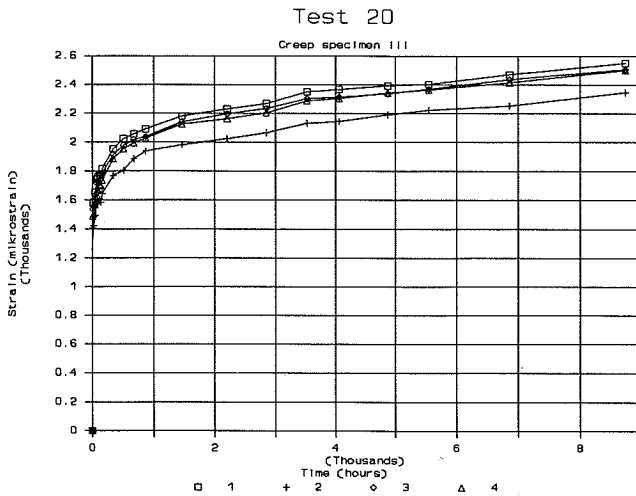


Figure D.20.6 Creep specimen II (long-time)



Figur D.20.7 Creep specimen III (short-time)



Figur D.20.8 Creep specimen III (long-time)

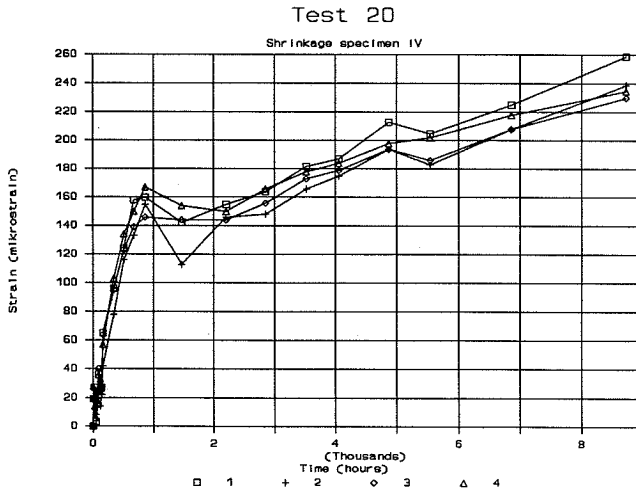


Figure D.20.9 Shrinkage specimen IV (long-time)

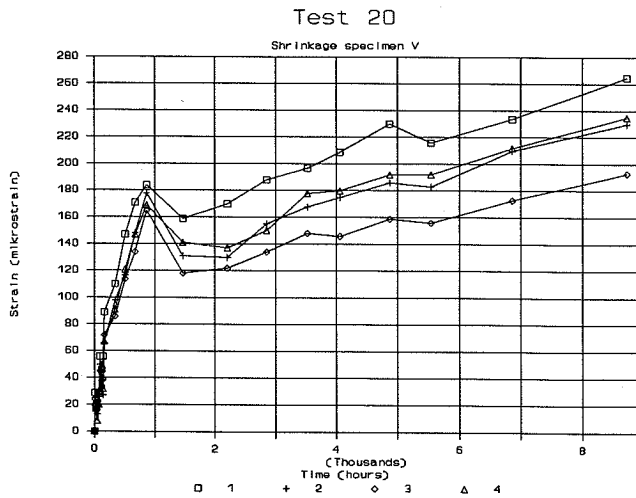
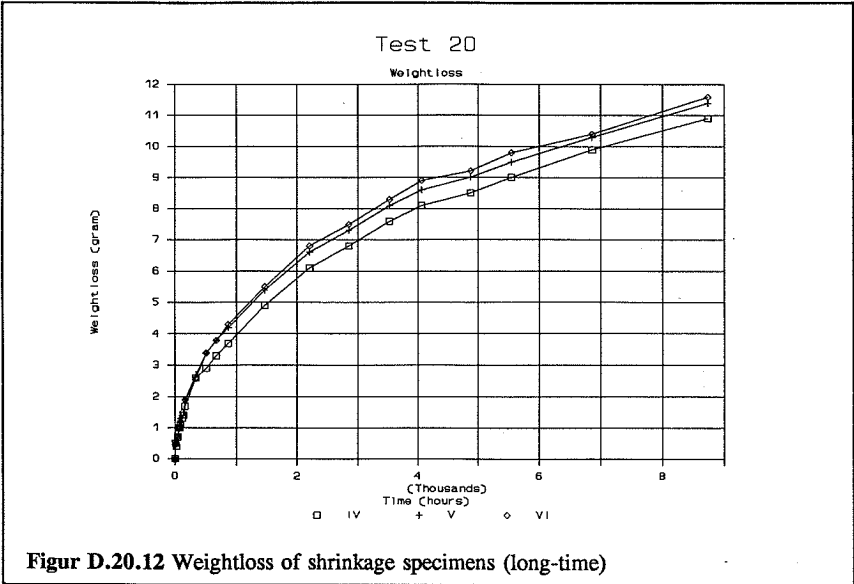
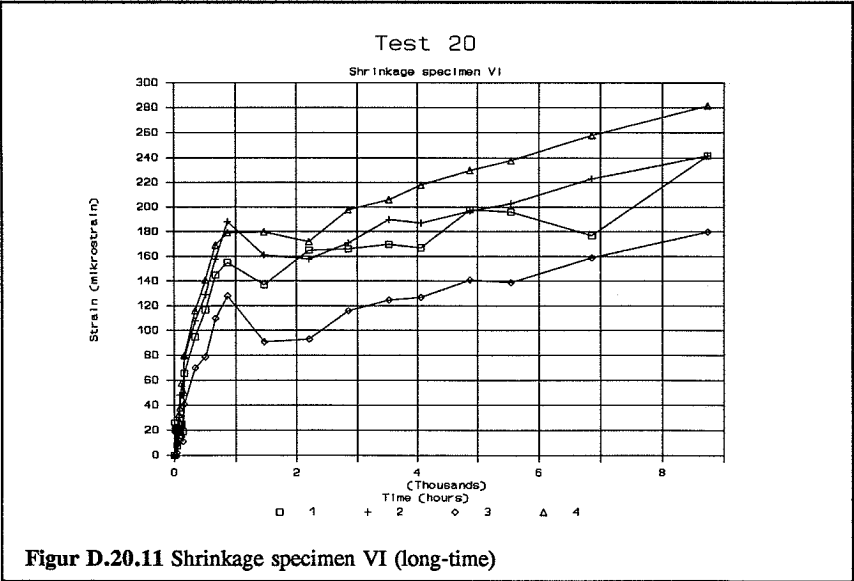
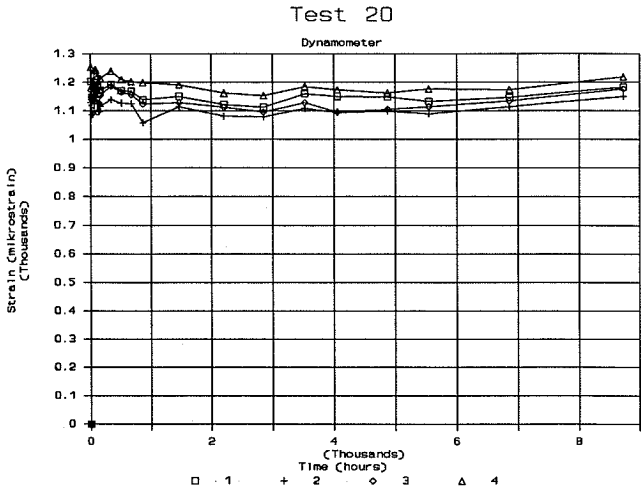
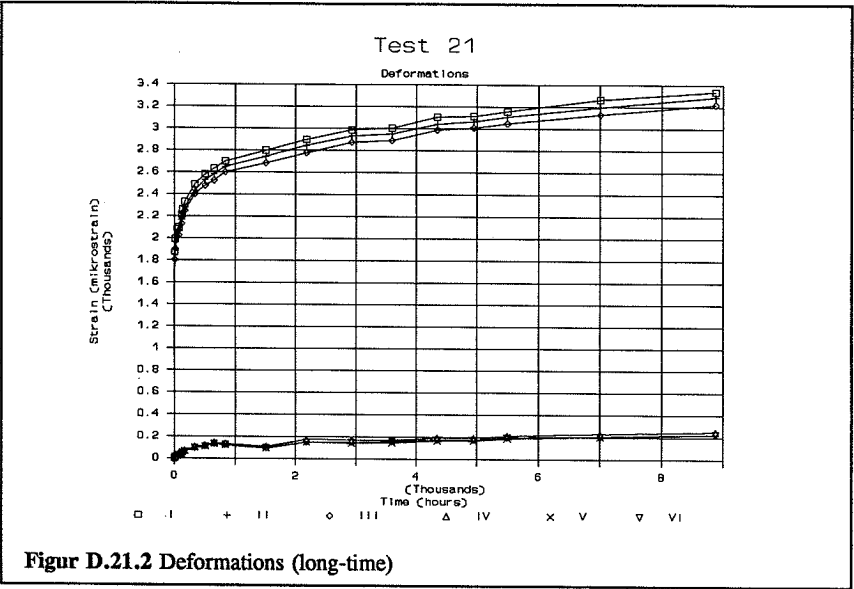
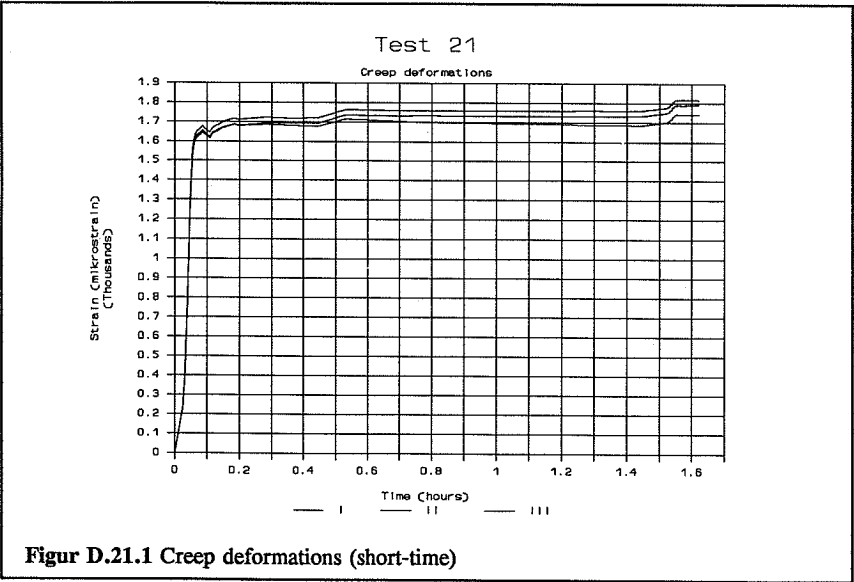


Figure D.20.10 Shrinkage specimen V (long-time)





Figur D.20.13 Dynamometer strains (long-time)



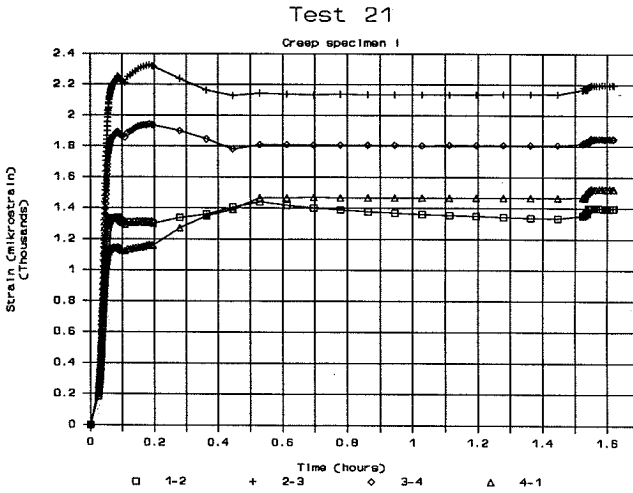


Figure D.21.3 Creep specimen I (short-time)

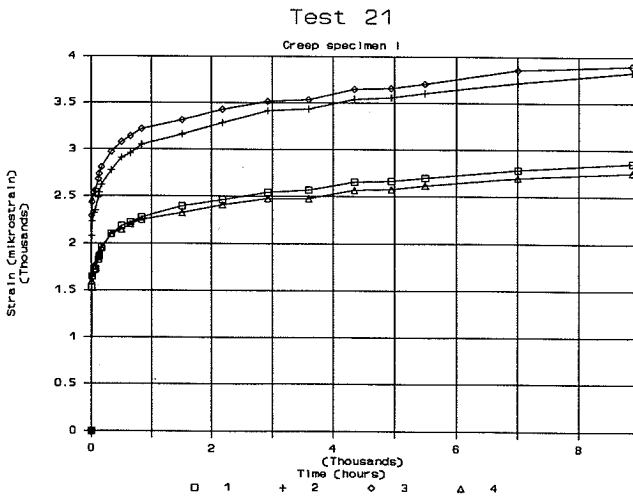
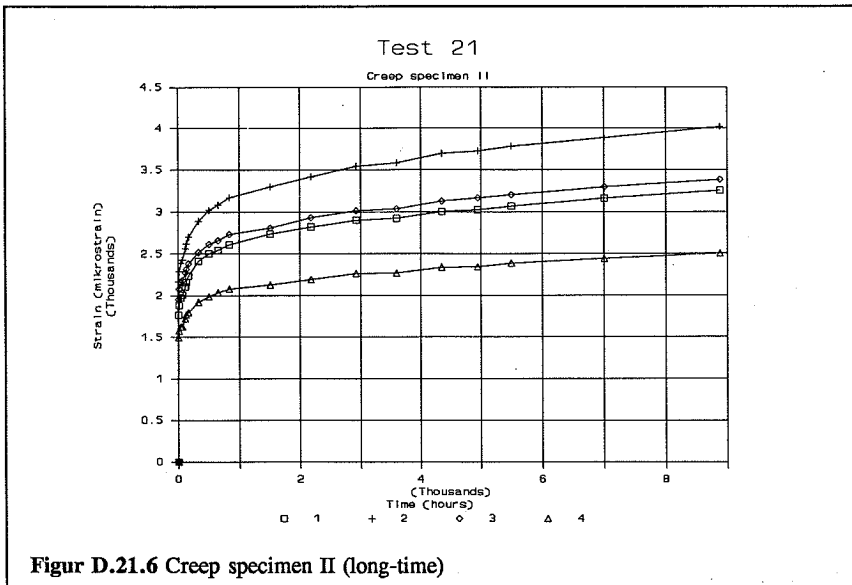
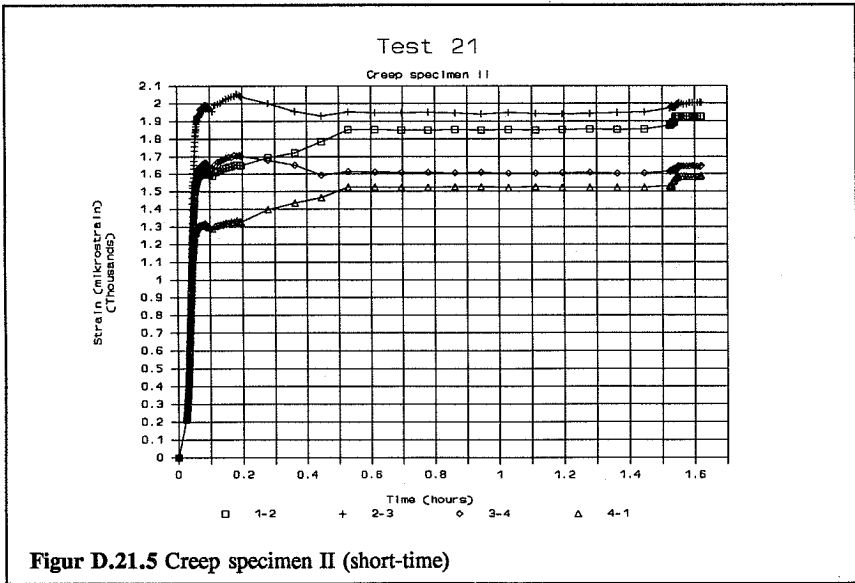
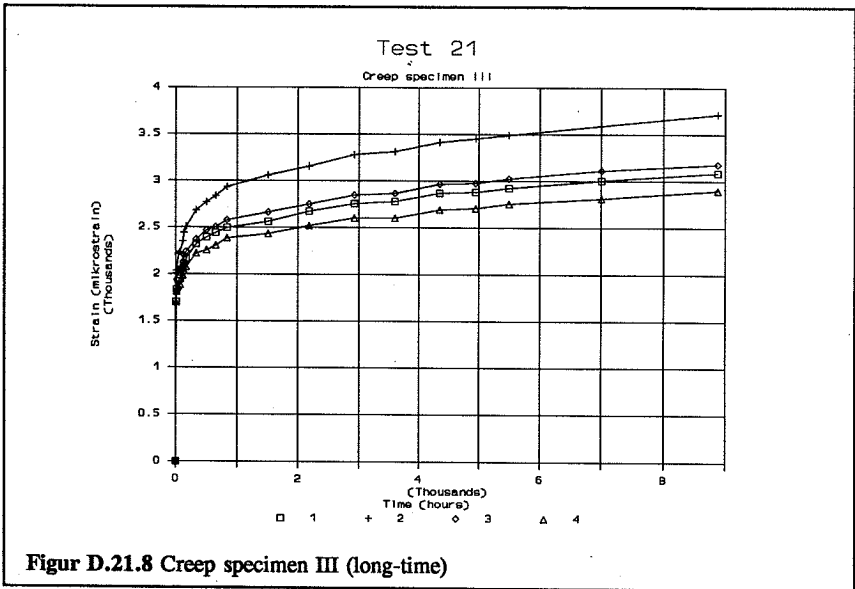
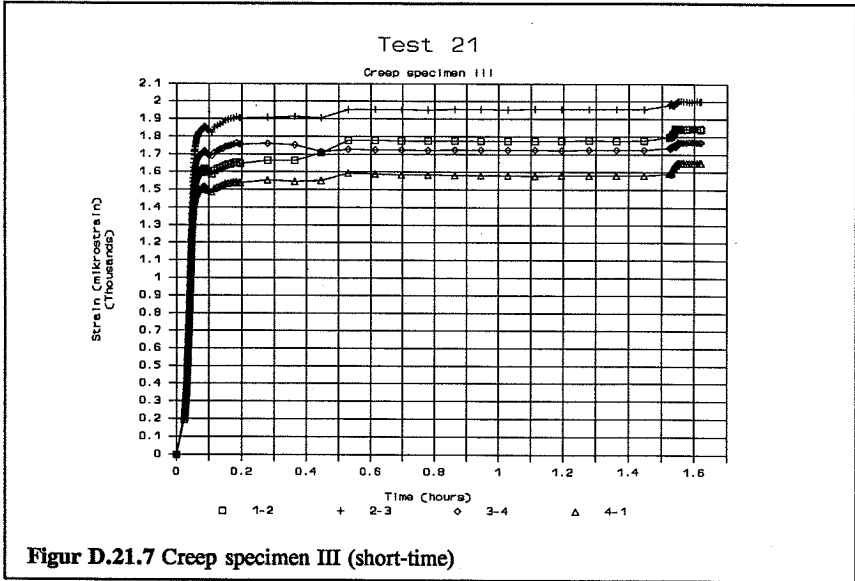
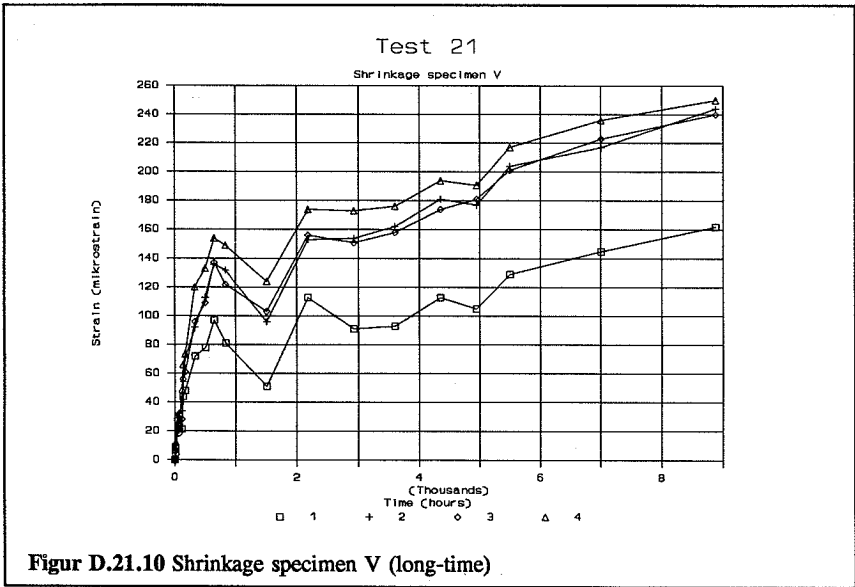
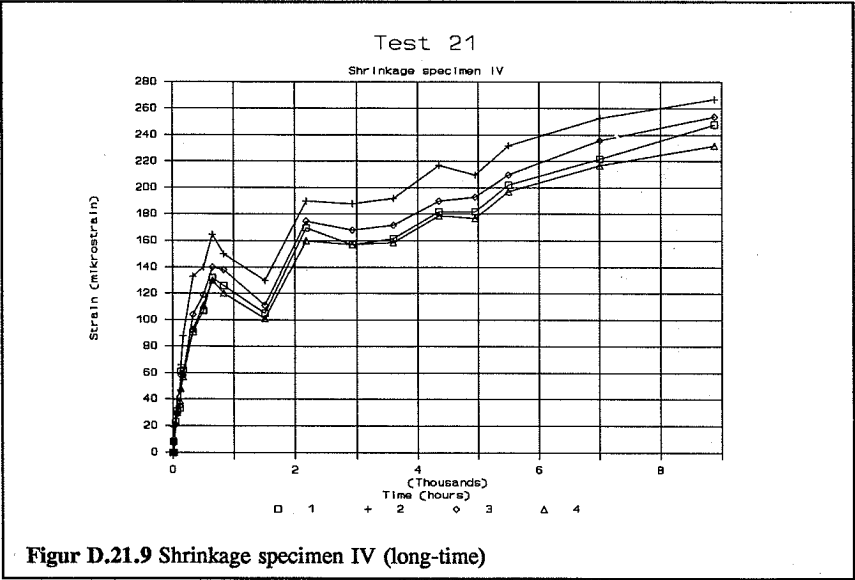
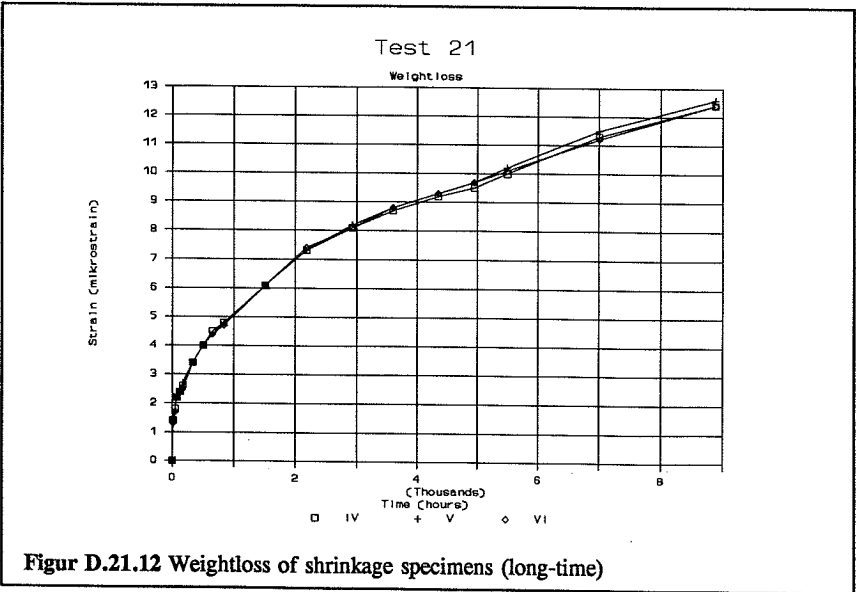
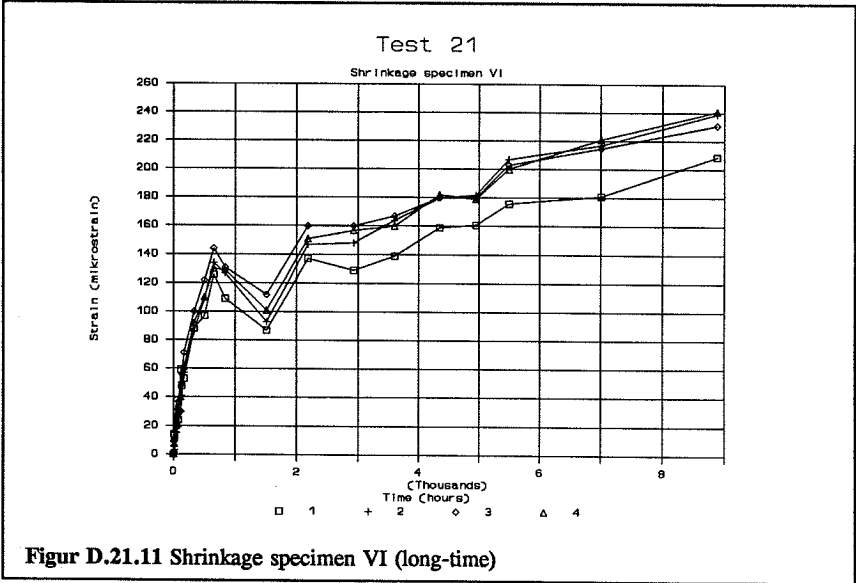


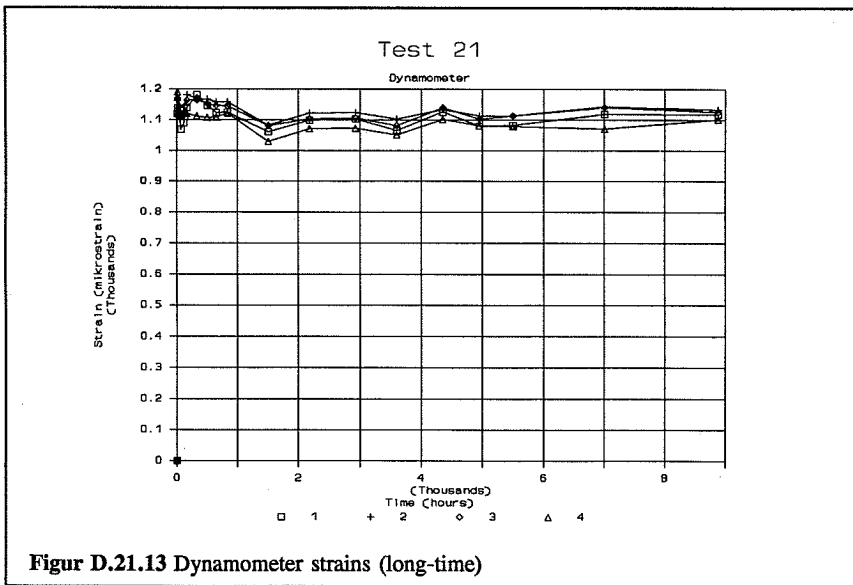
Figure D.21.4 Creep specimen I (long-time)

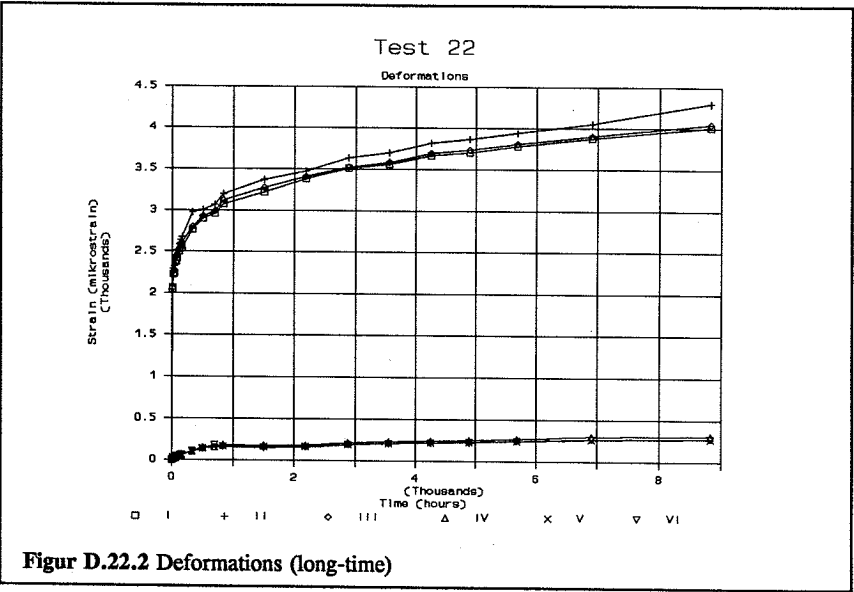
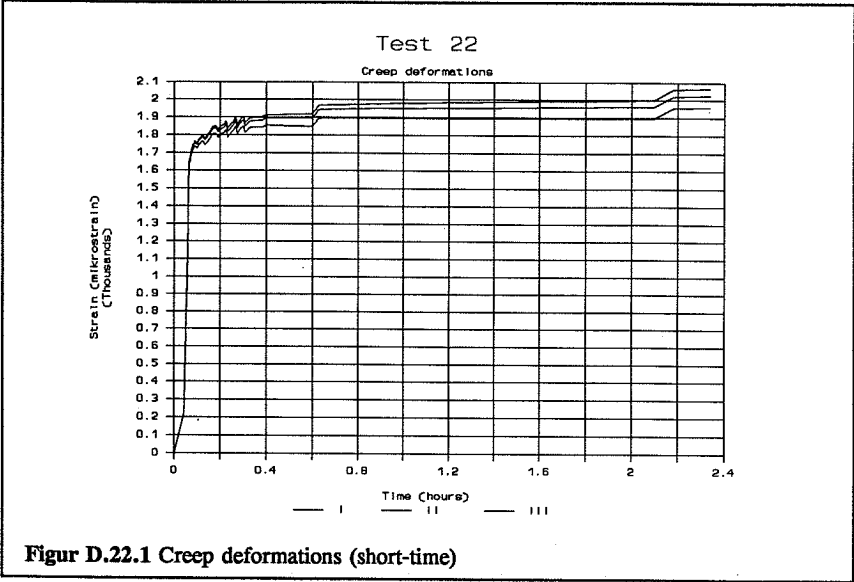


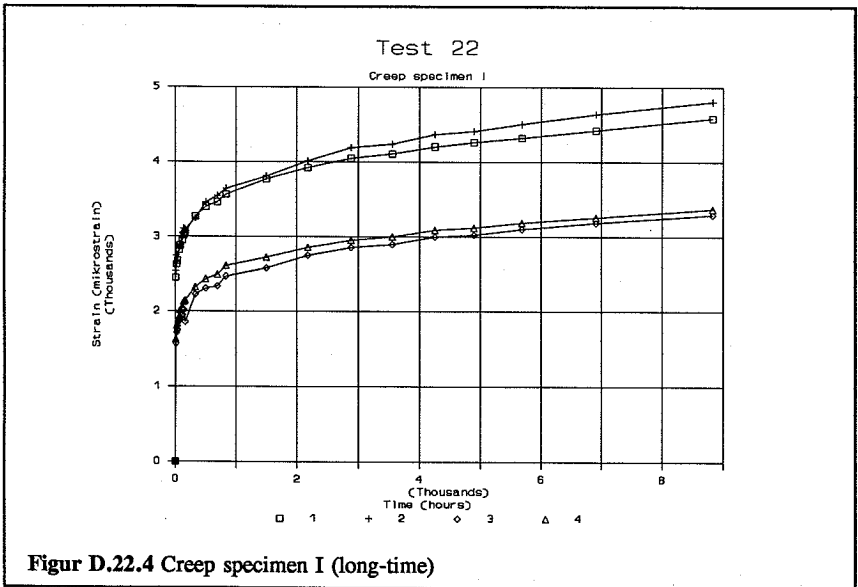
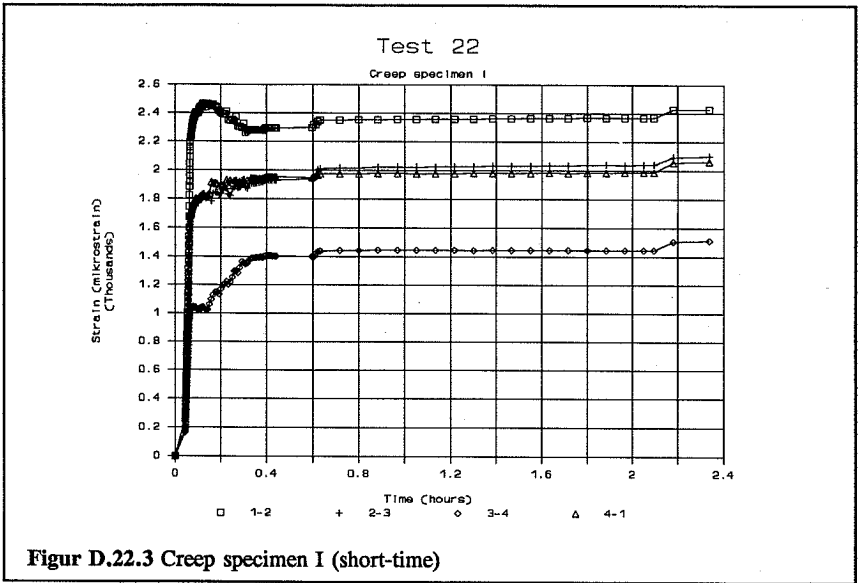


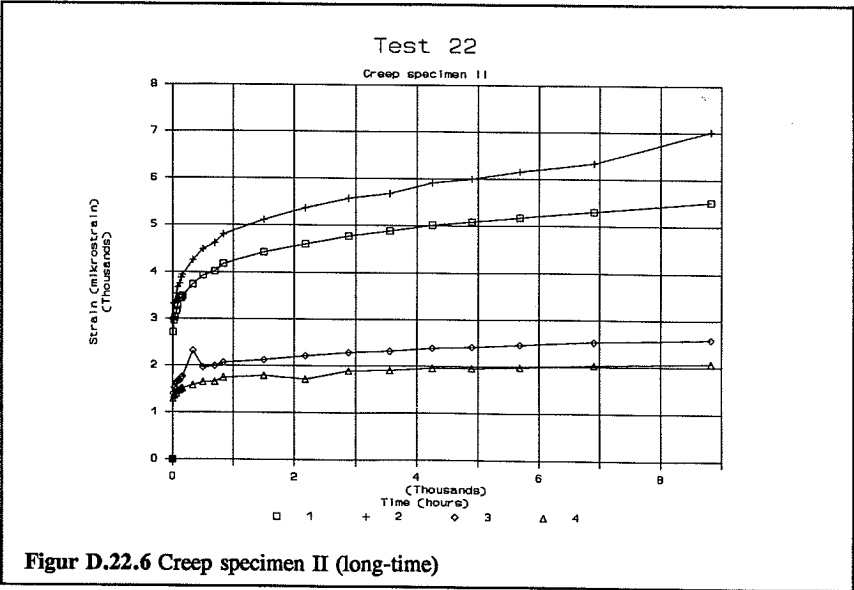
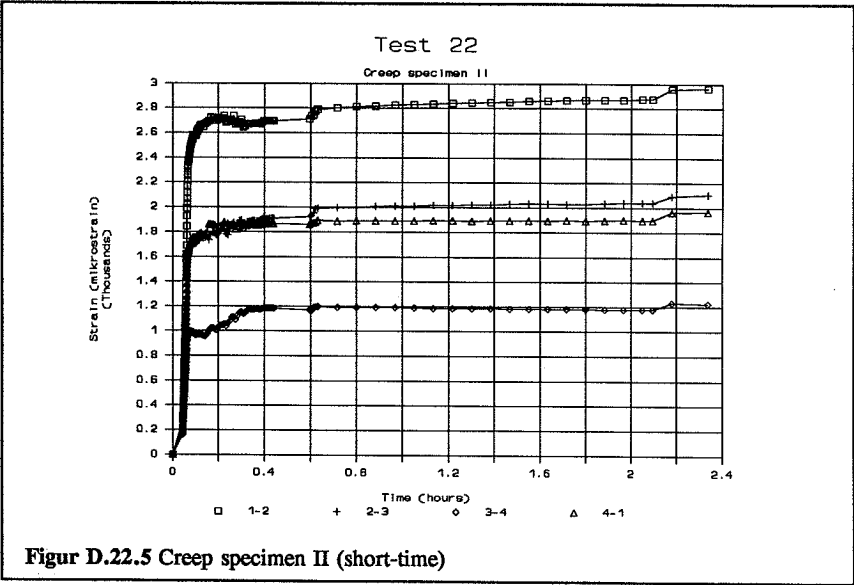


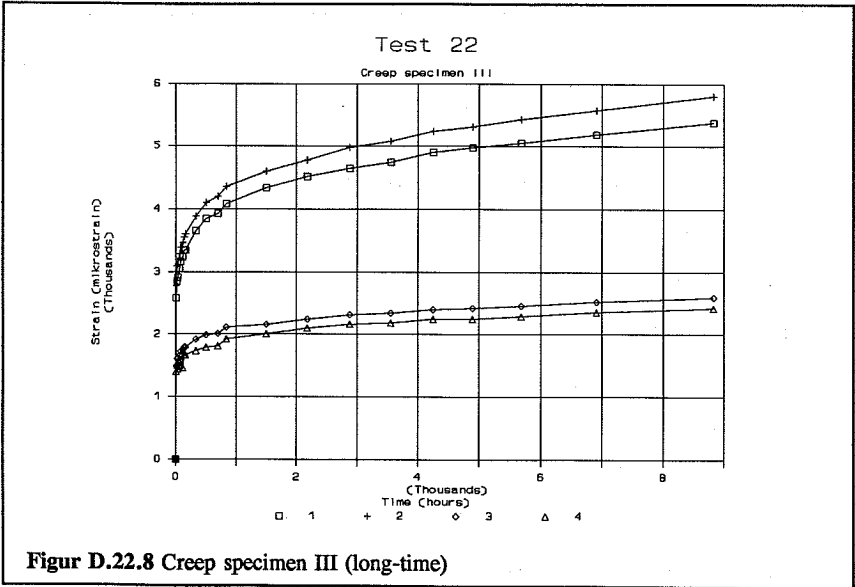
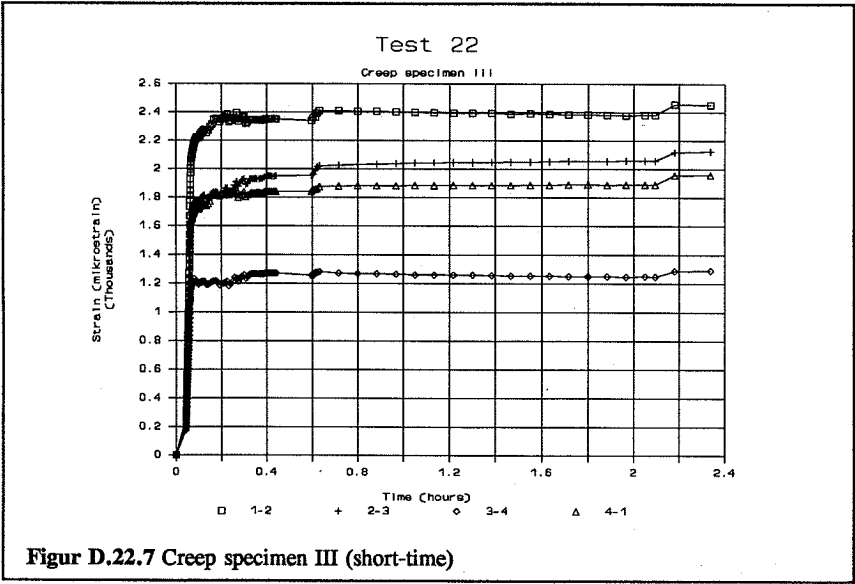


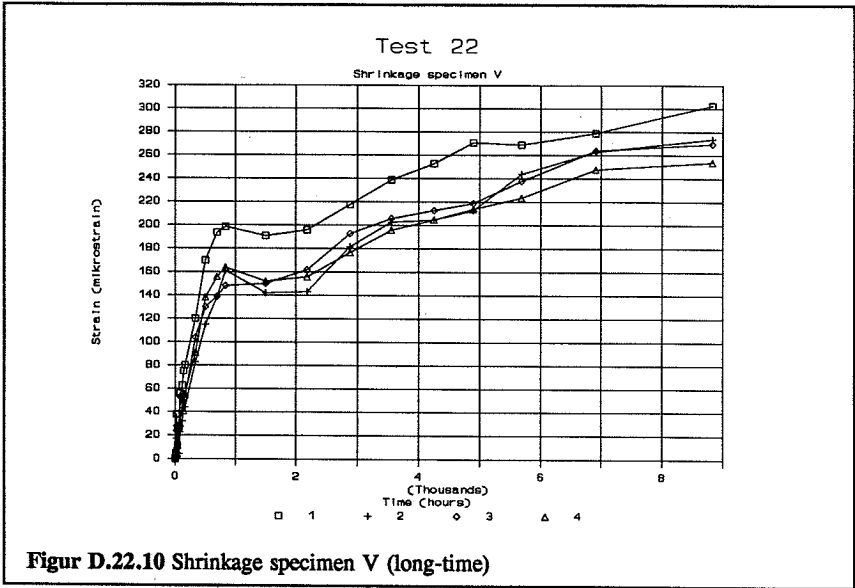
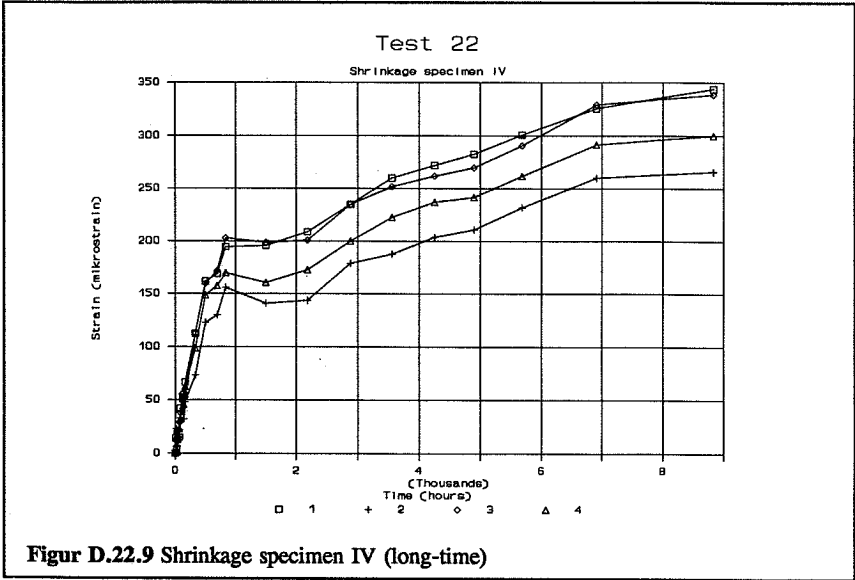


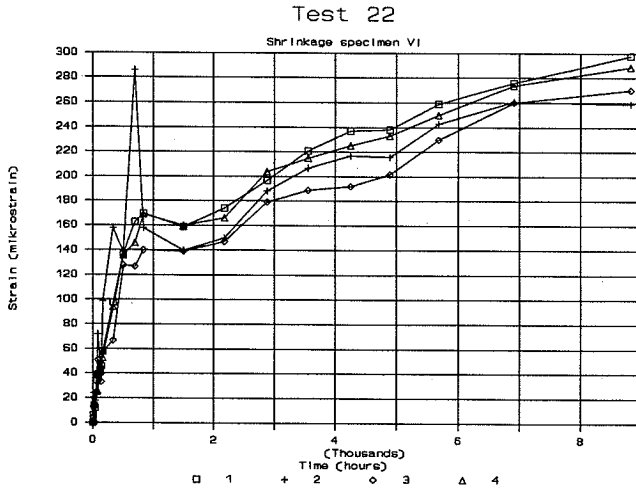




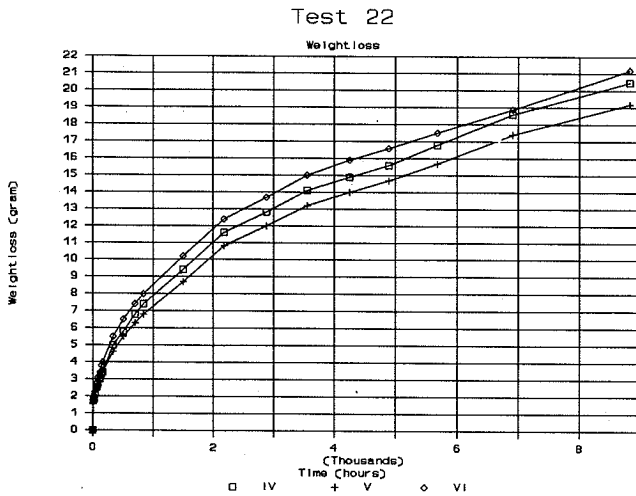




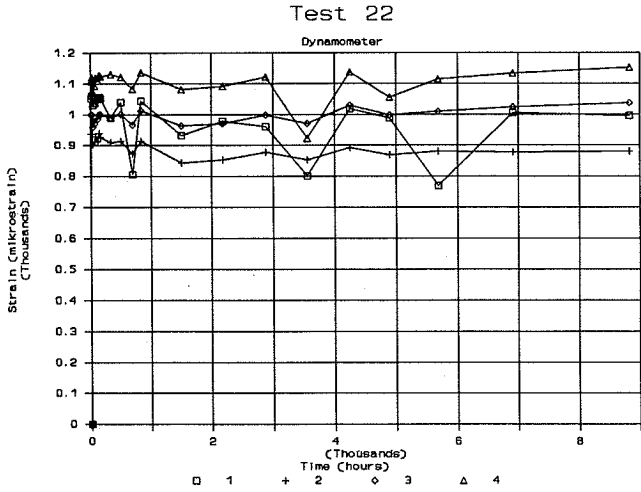




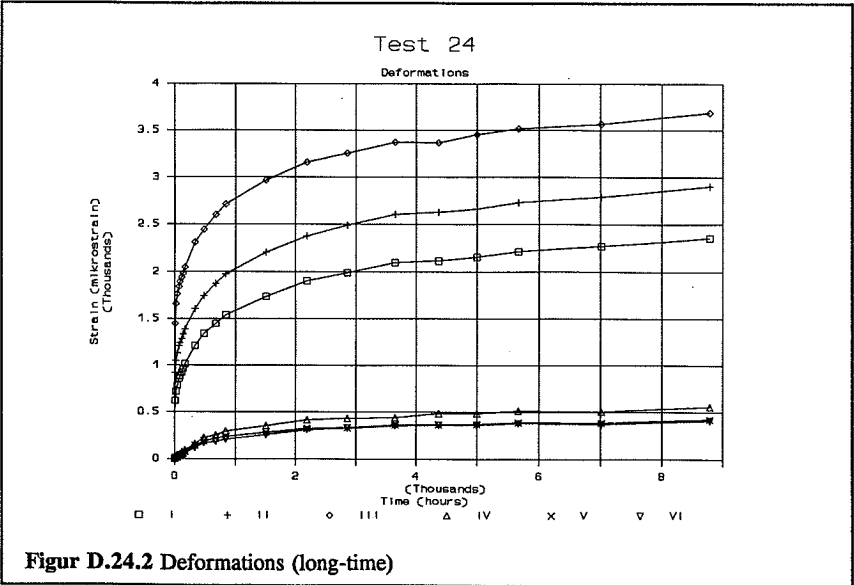
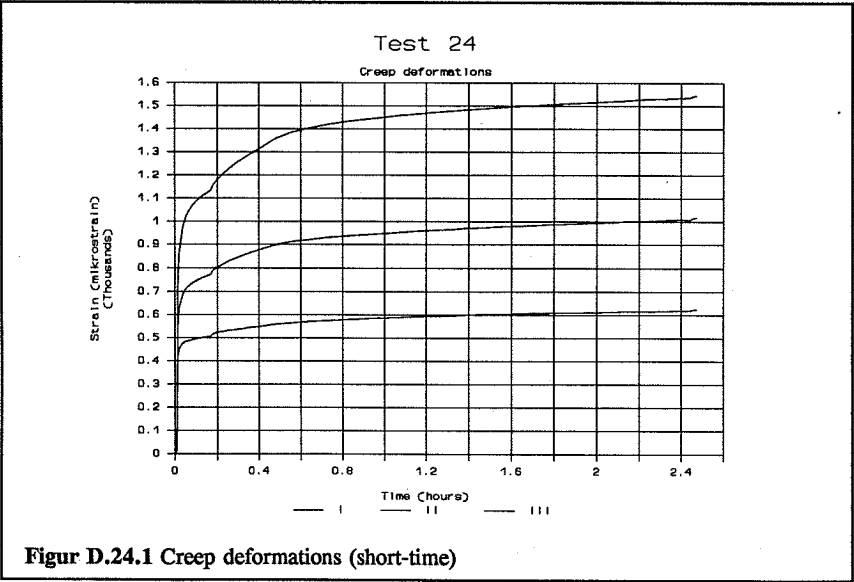
Figur D.22.11 Shrinkage specimen VI (long-time)

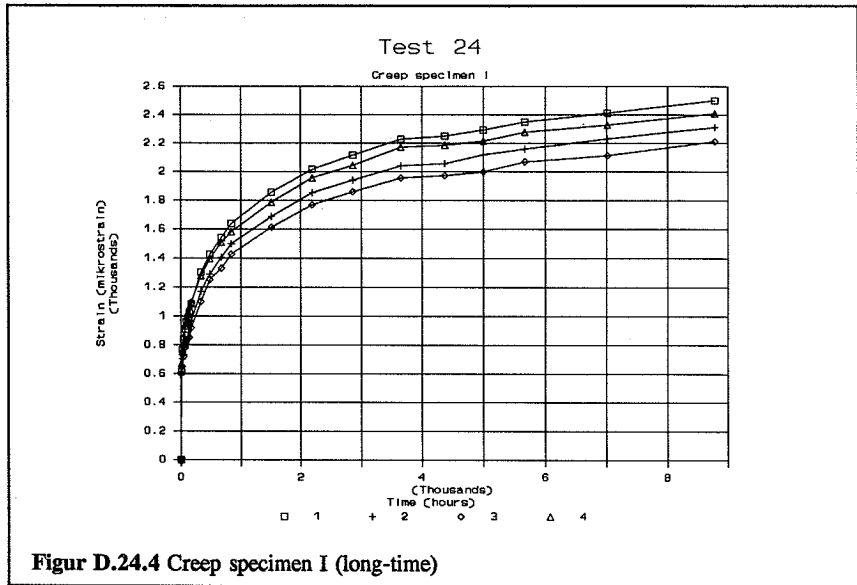
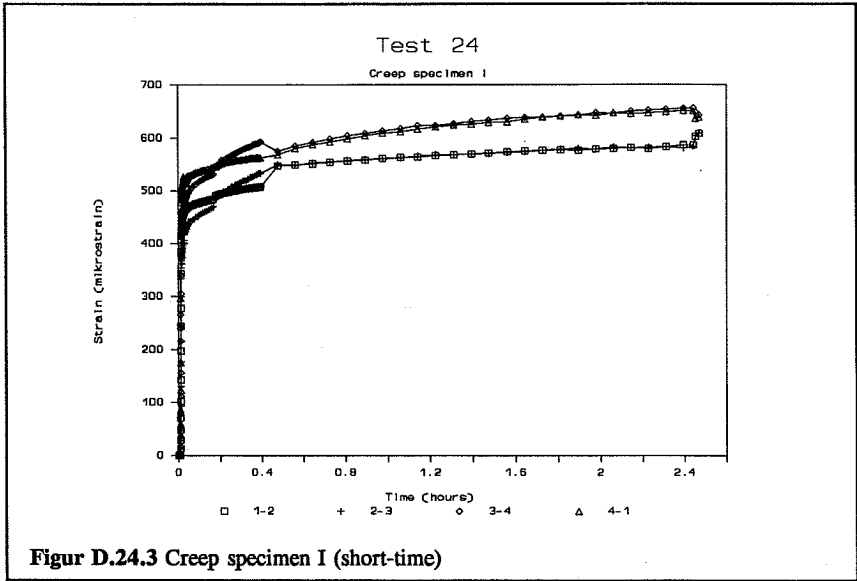


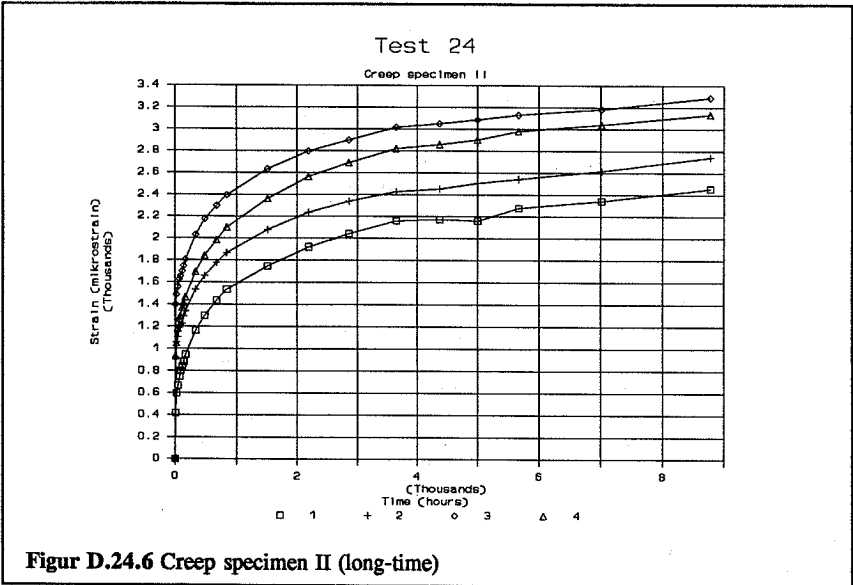
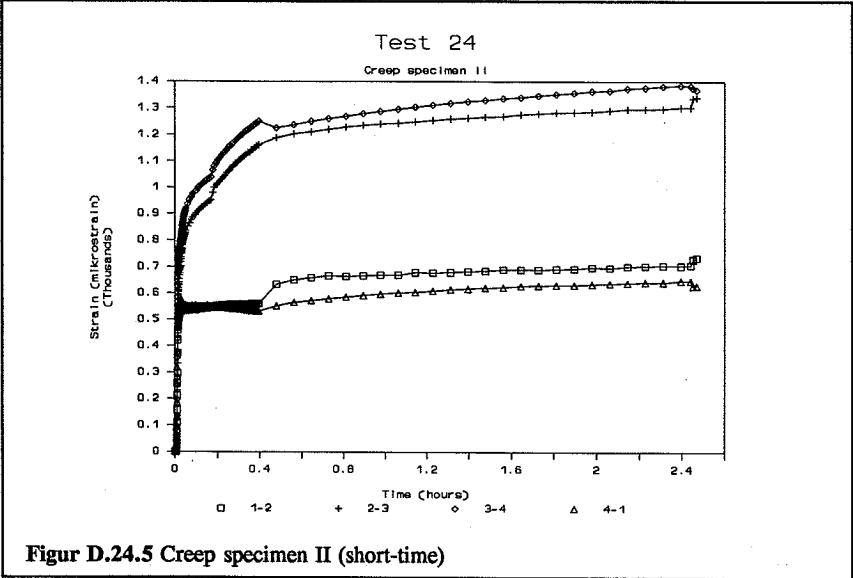
Figur D.22.12 Weightloss of shrinkage specimens (long-time)

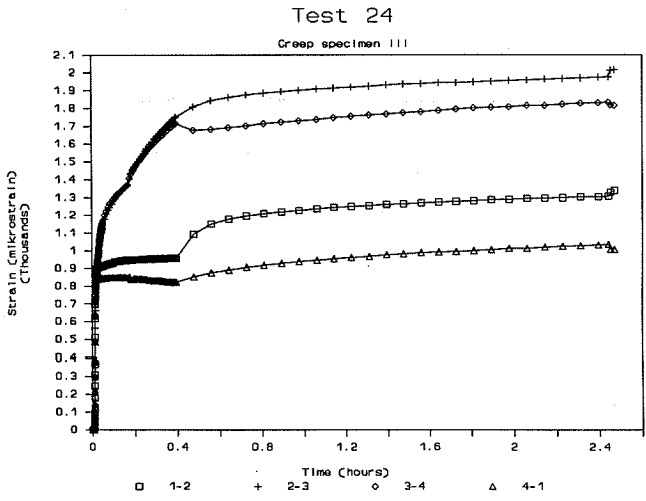


Figur D.22.13 Dynamometer strains (long-time)

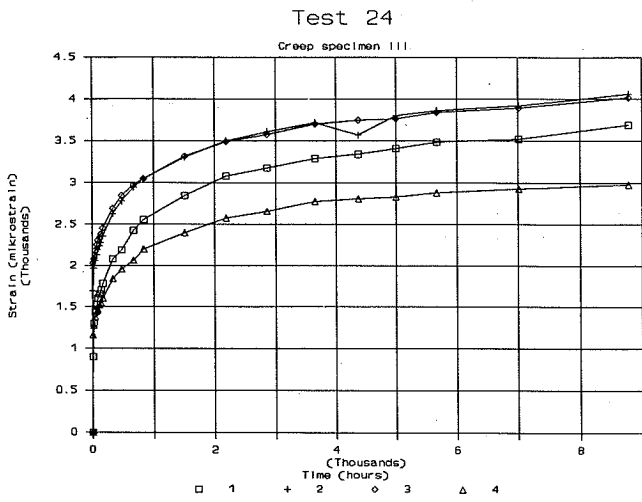




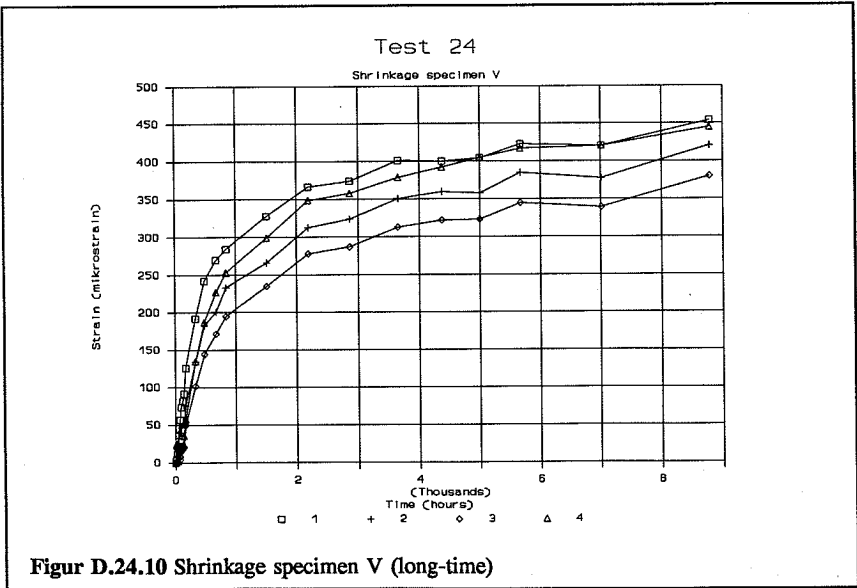
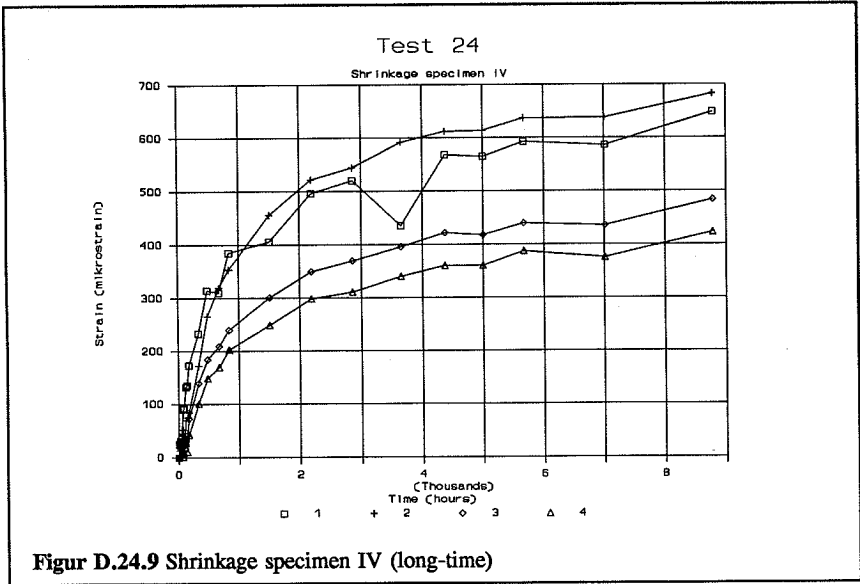




Figur D.24.7 Creep specimen III (short-time)



Figur D.24.8 Creep specimen III (long-time)



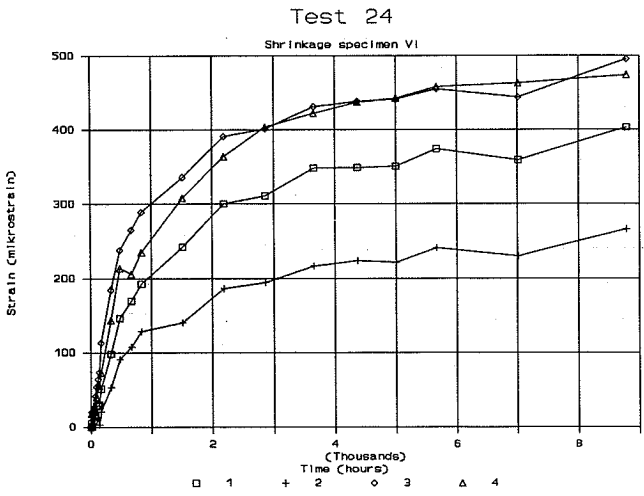


Figure D.24.11 Shrinkage specimen VI (long-time)

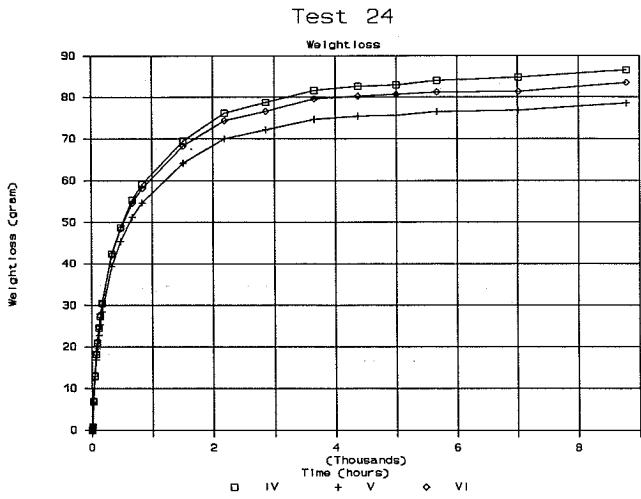
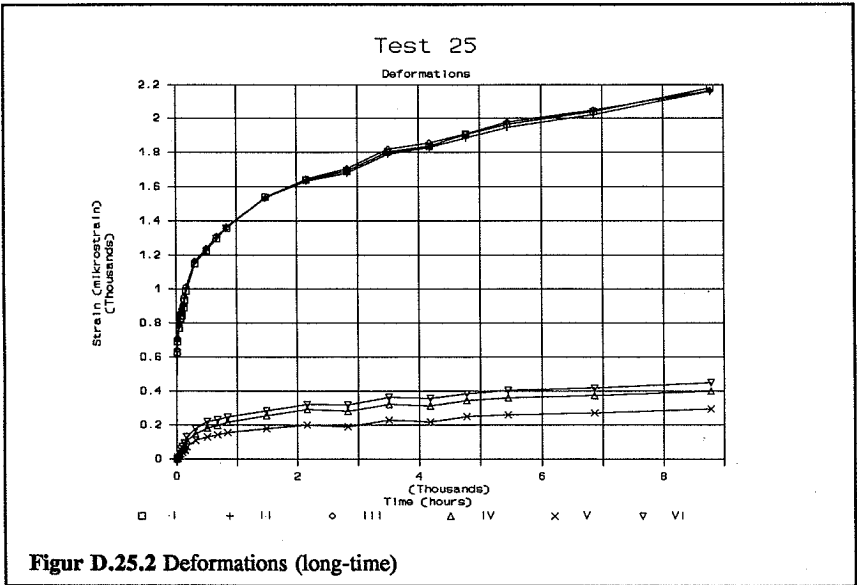
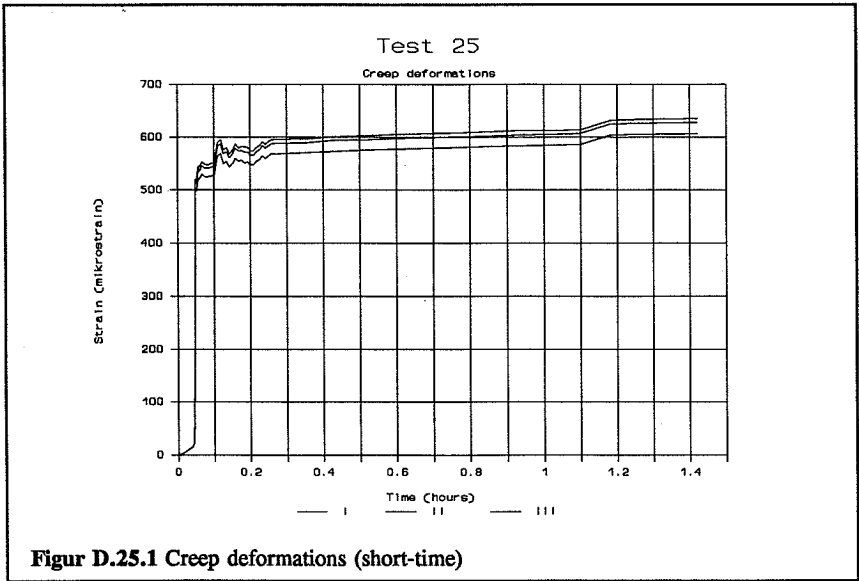
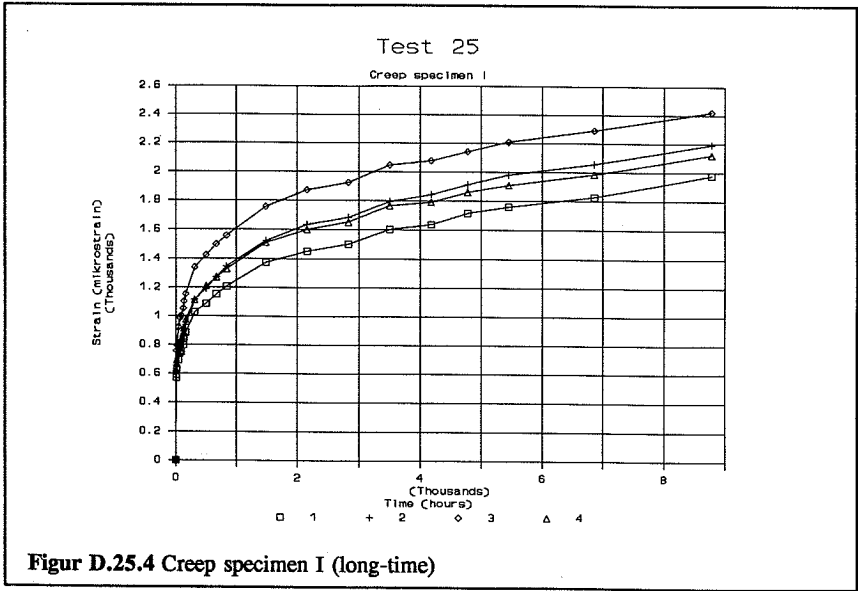
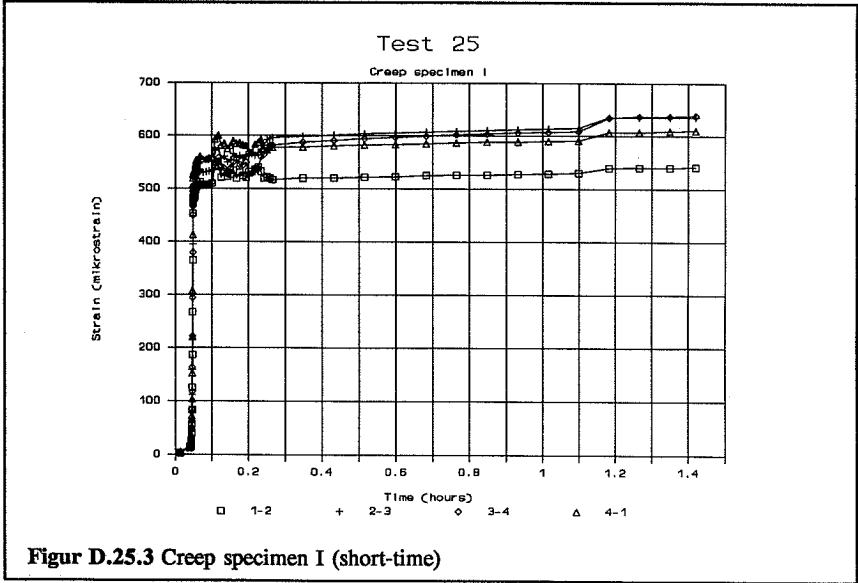
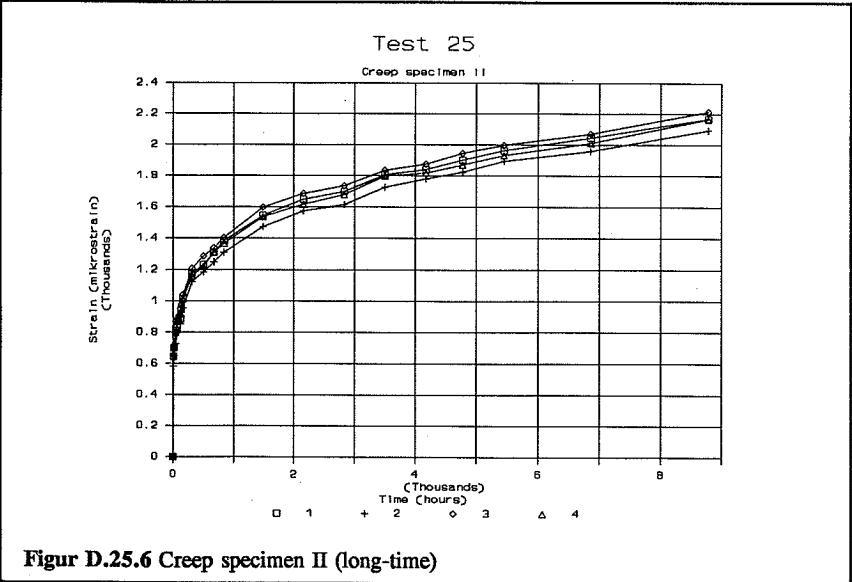
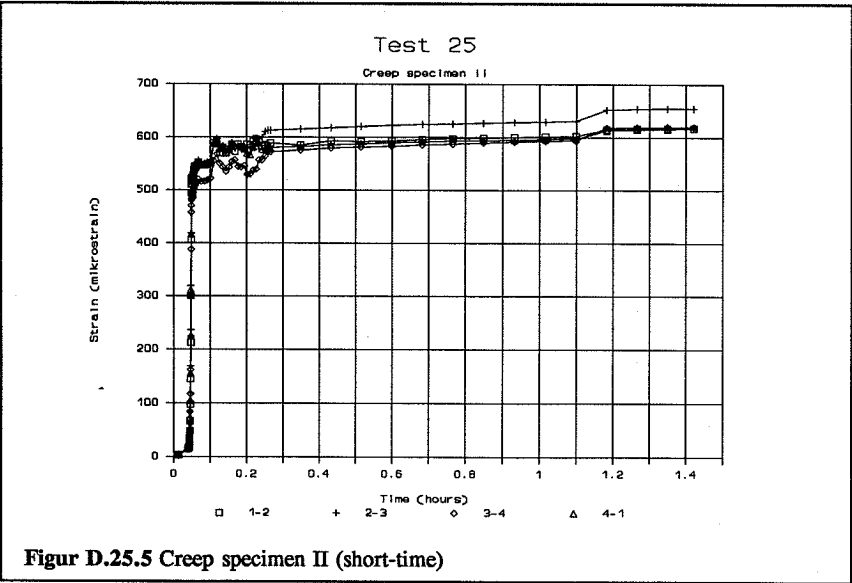
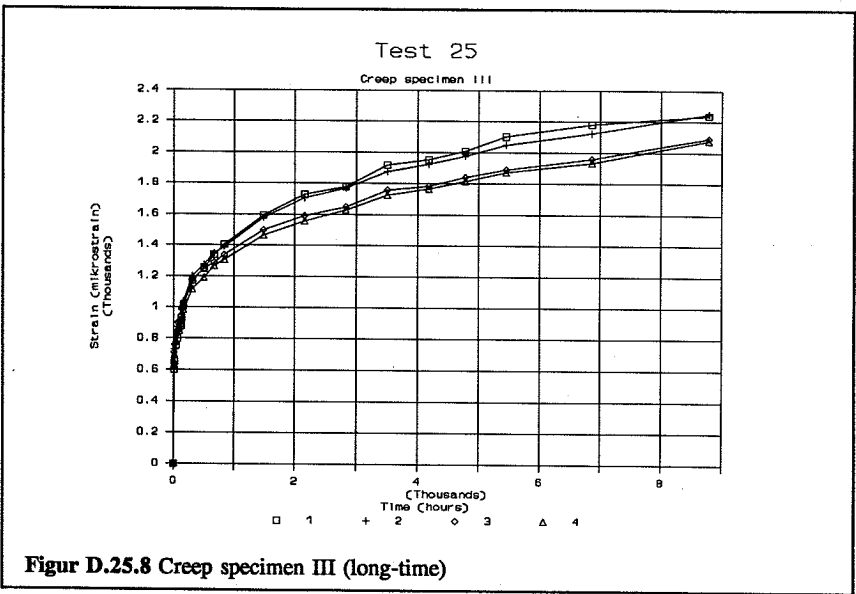
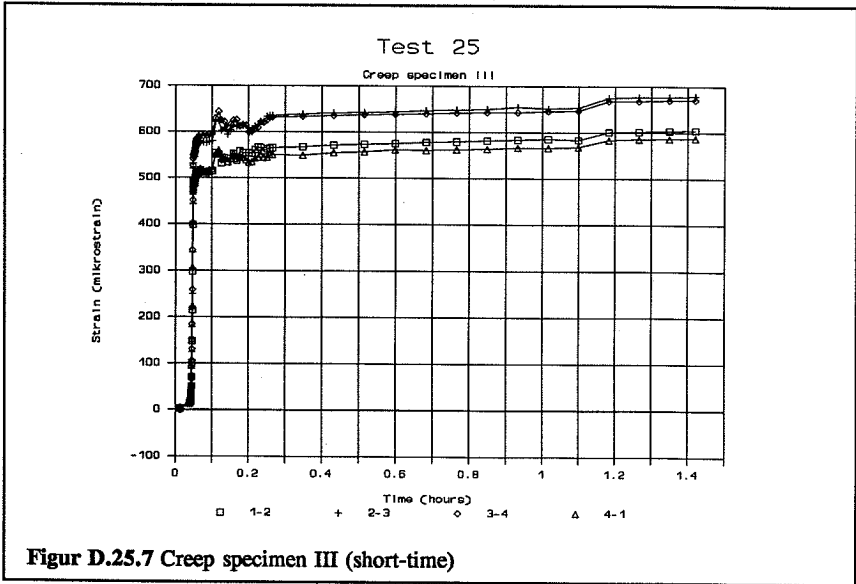


Figure D.24.12 Weightloss of shrinkage specimens (long-time)









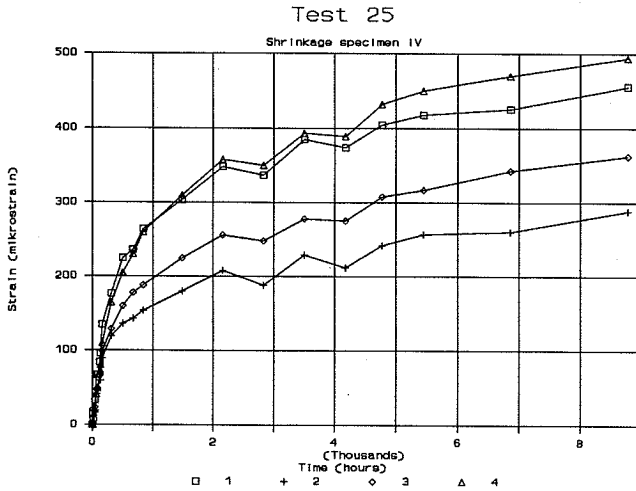


Figure D.25.9 Shrinkage specimen IV (long-time)

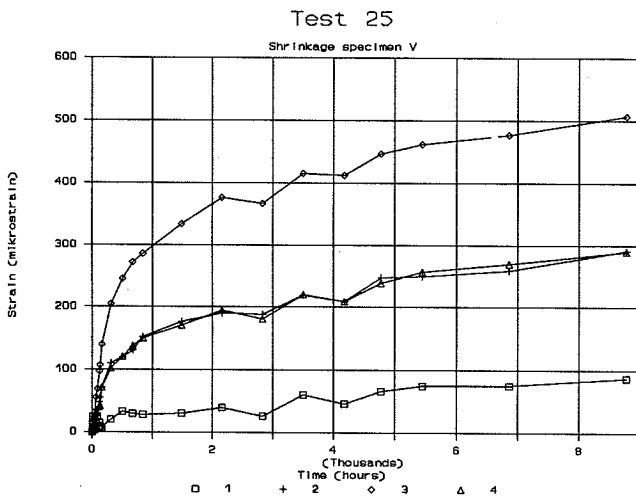
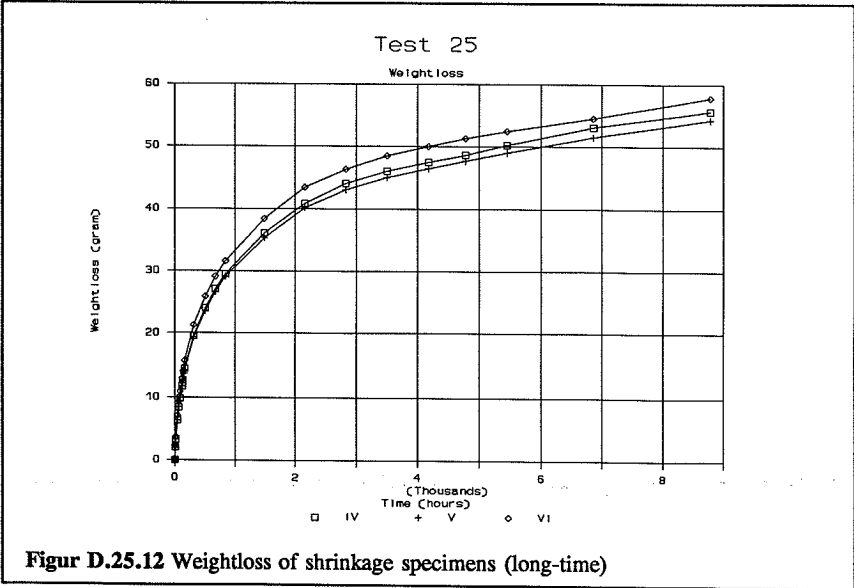
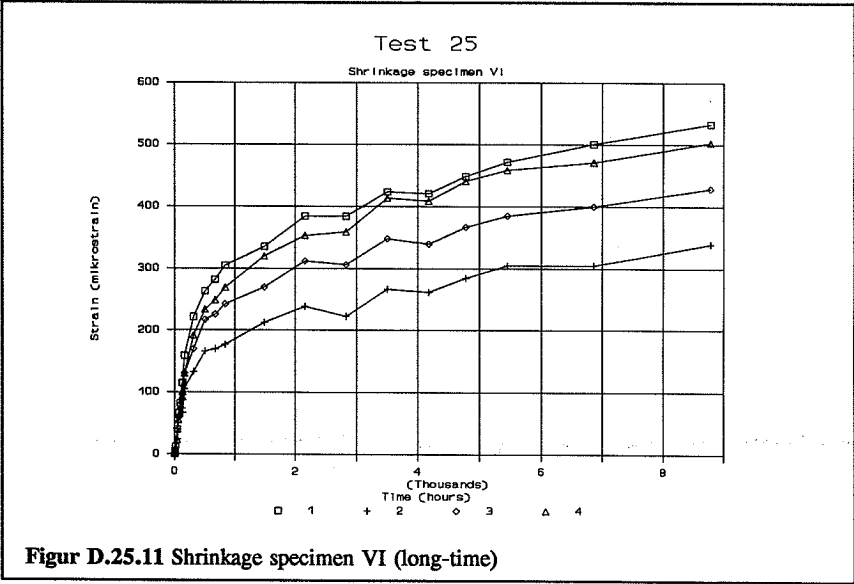
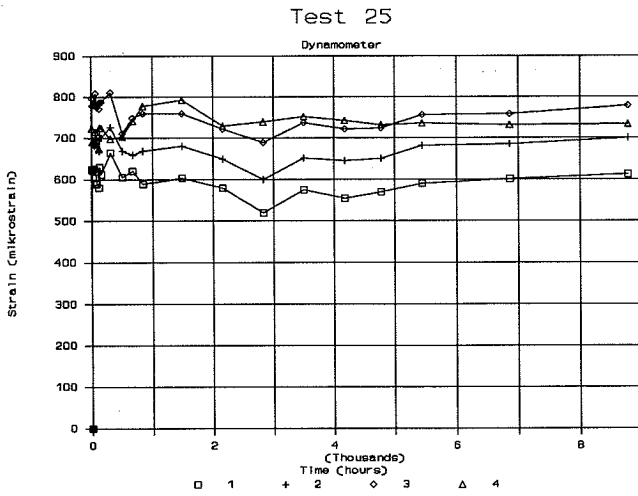
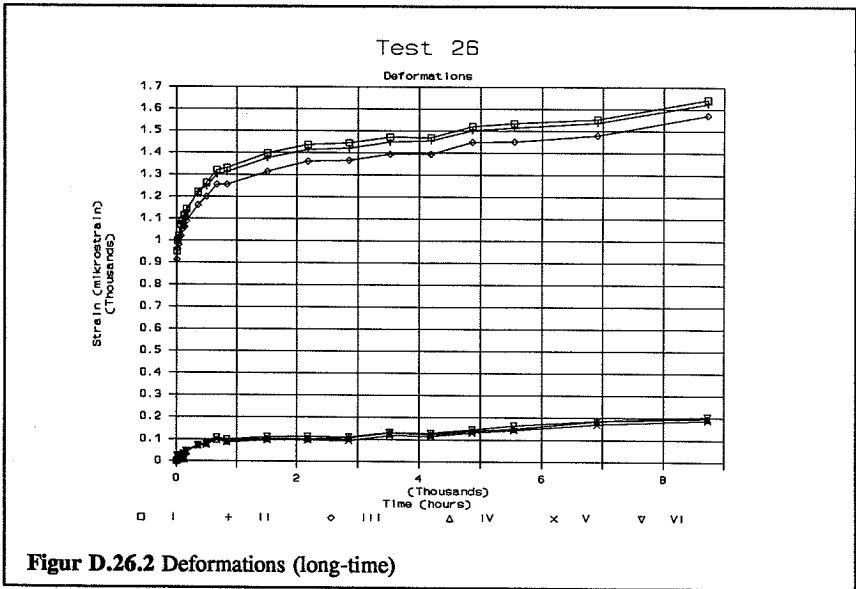
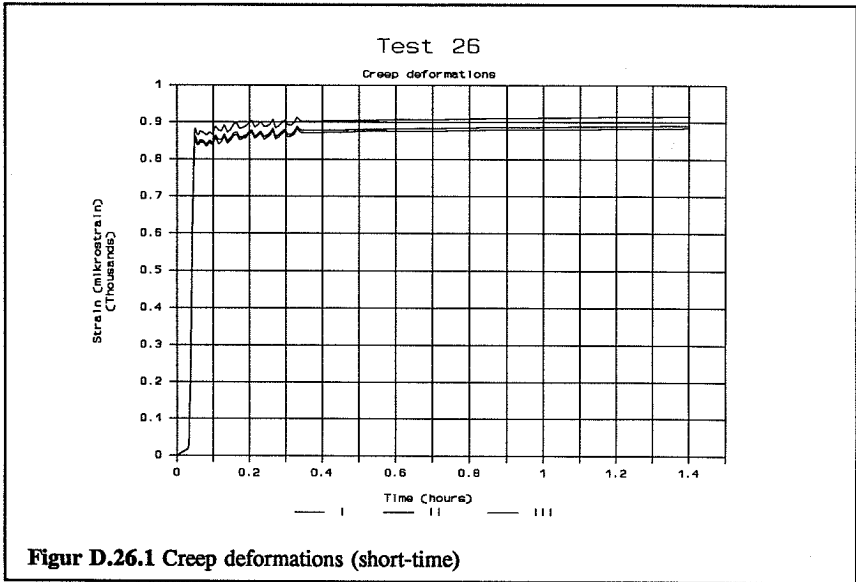


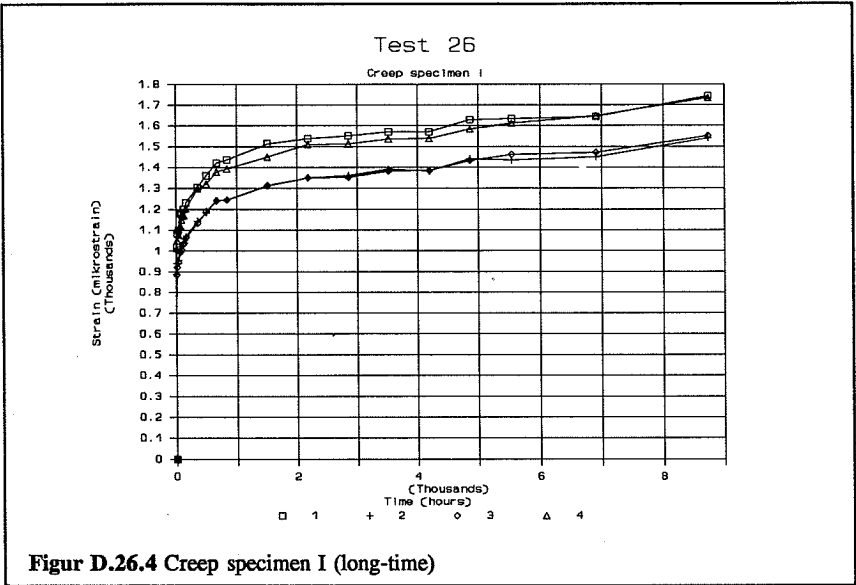
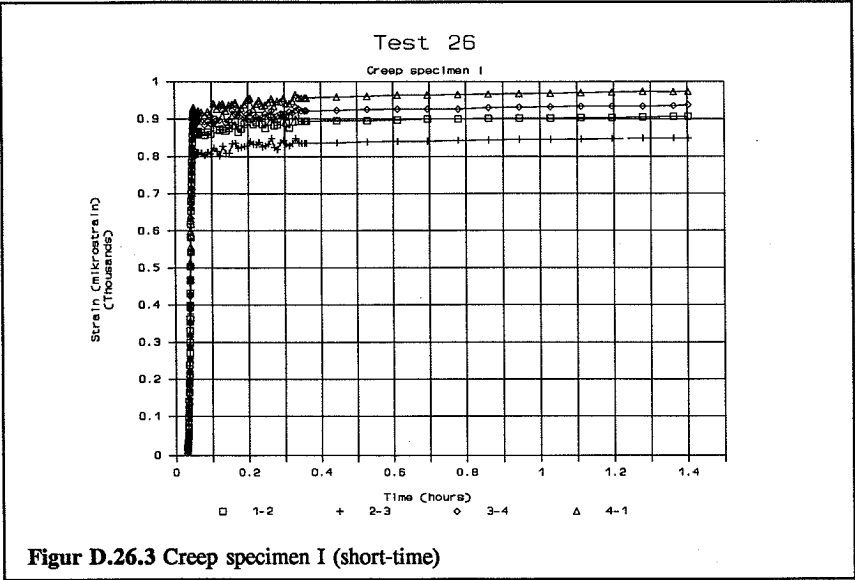
Figure D.25.10 Shrinkage specimen V (long-time)

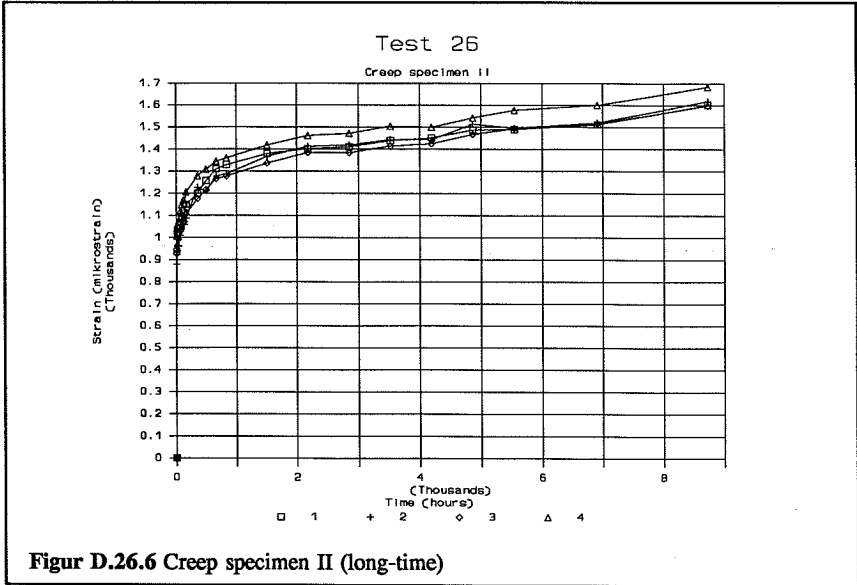
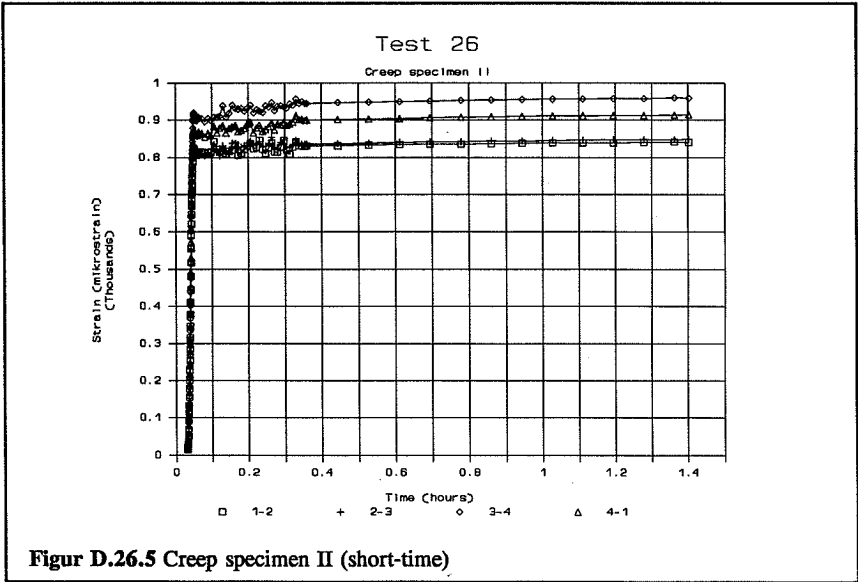


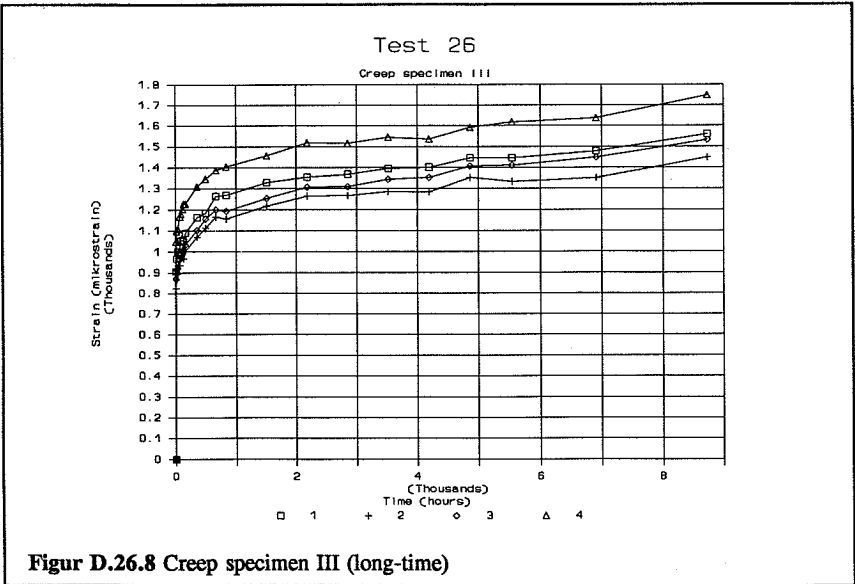
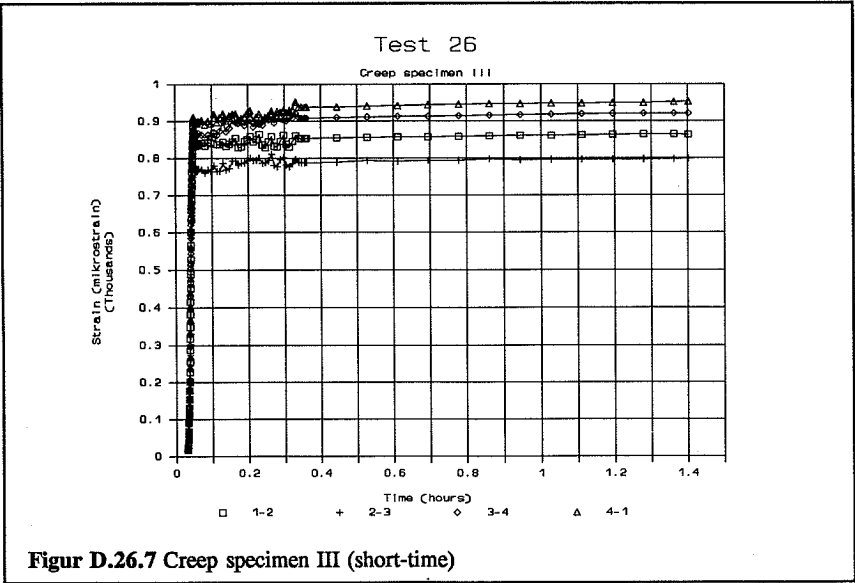


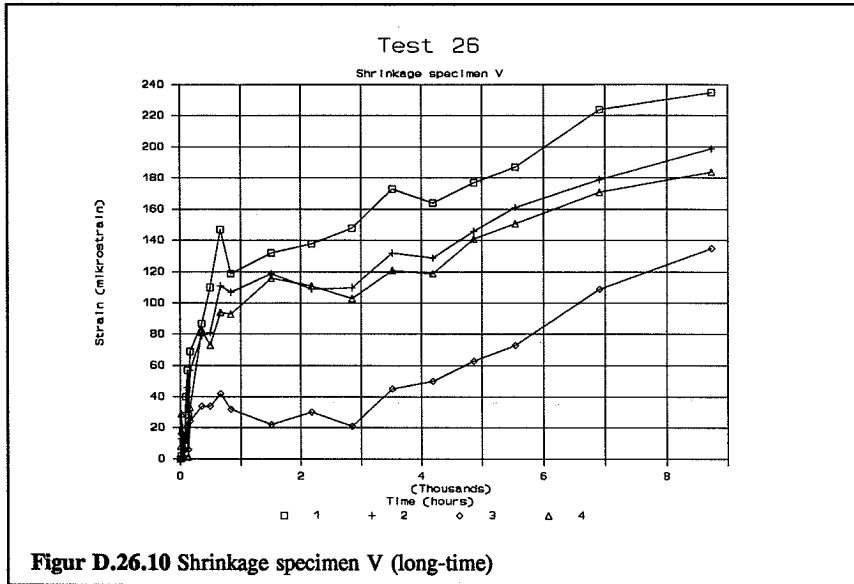
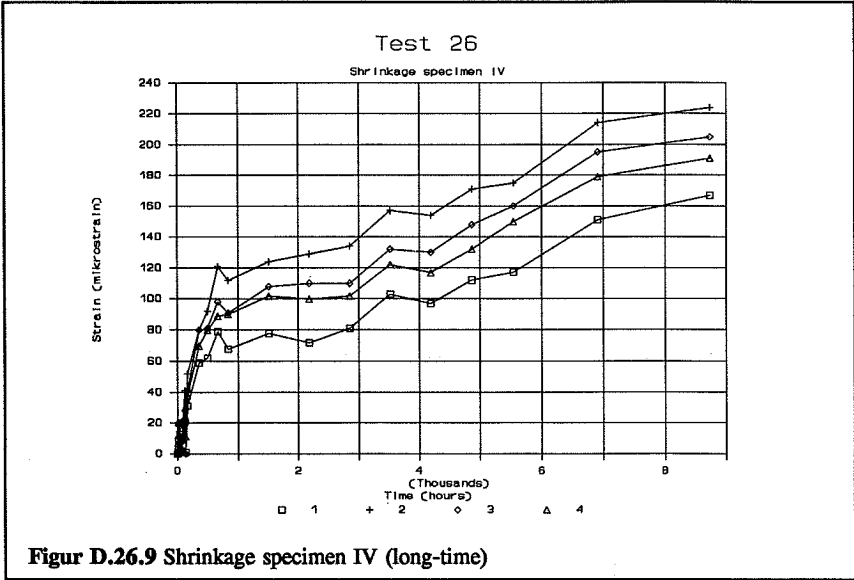
Figur D.25.13 Dynamometer strains (long-time)











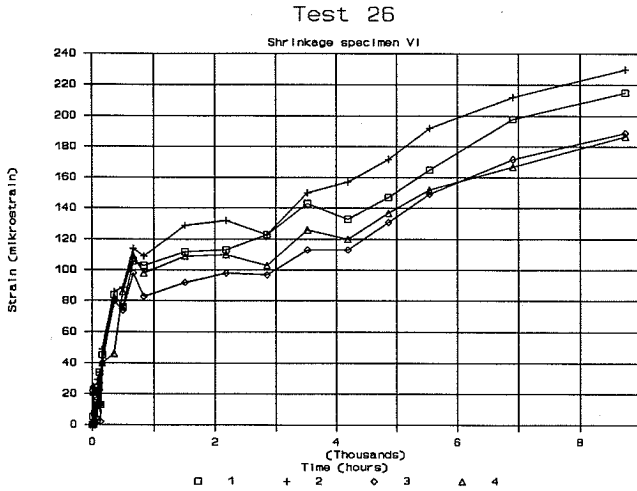


Figure D.26.11 Shrinkage specimen VI (long-time)

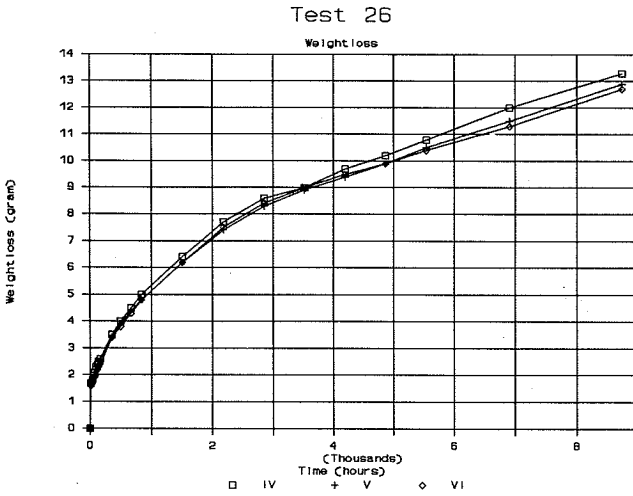
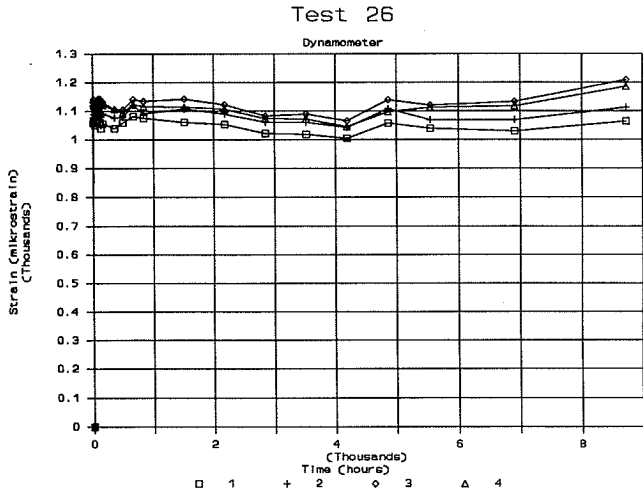
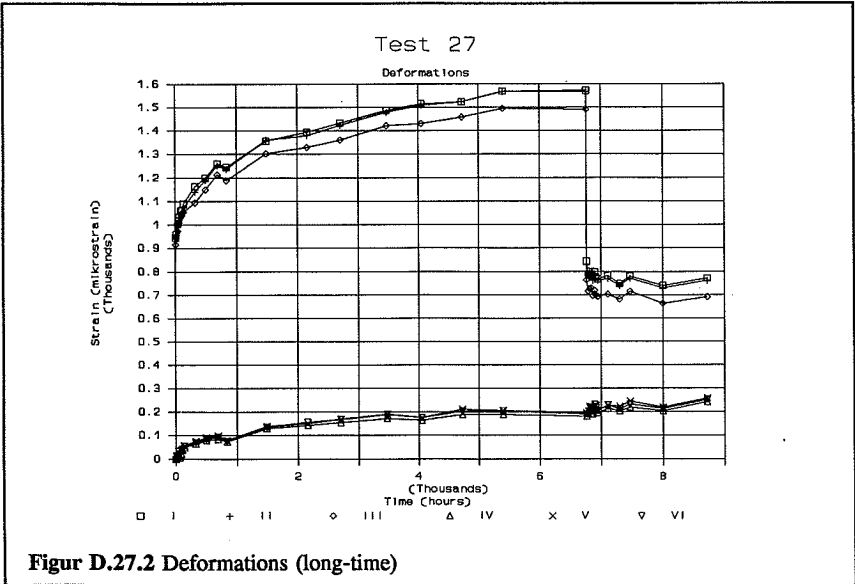
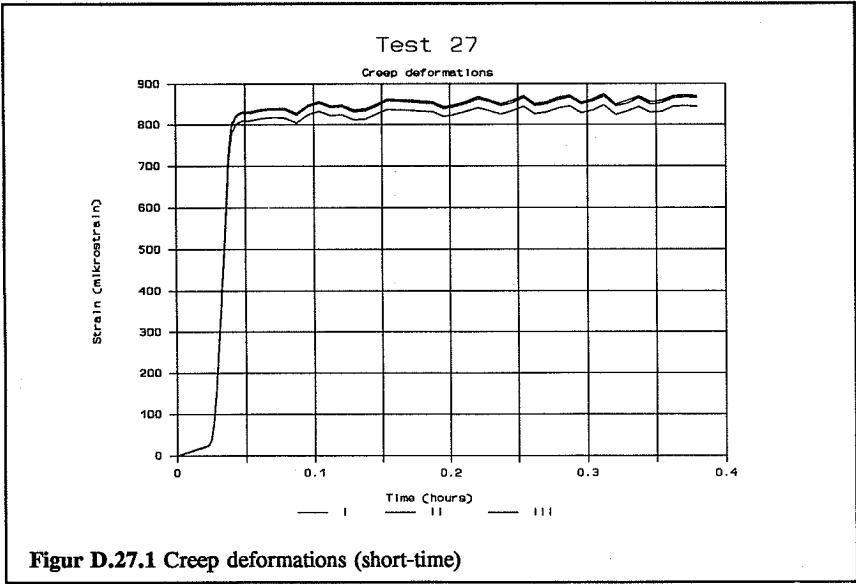
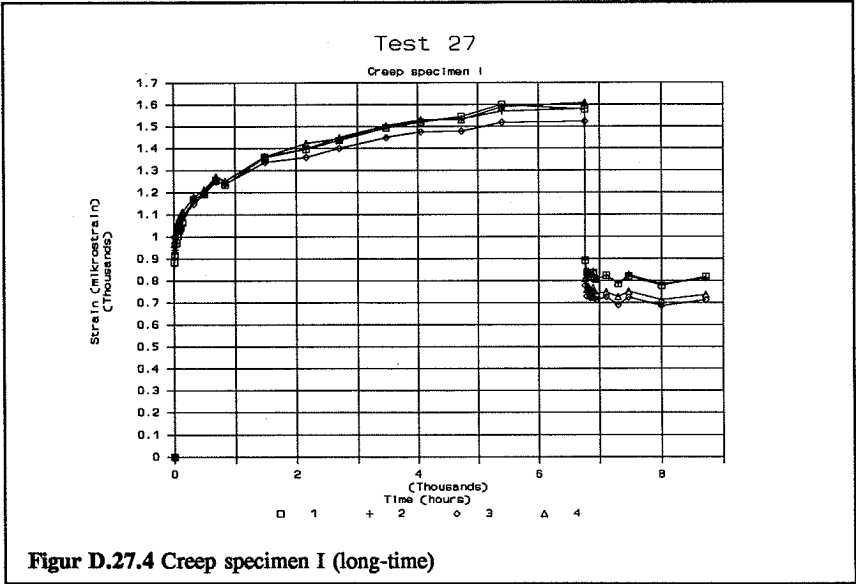
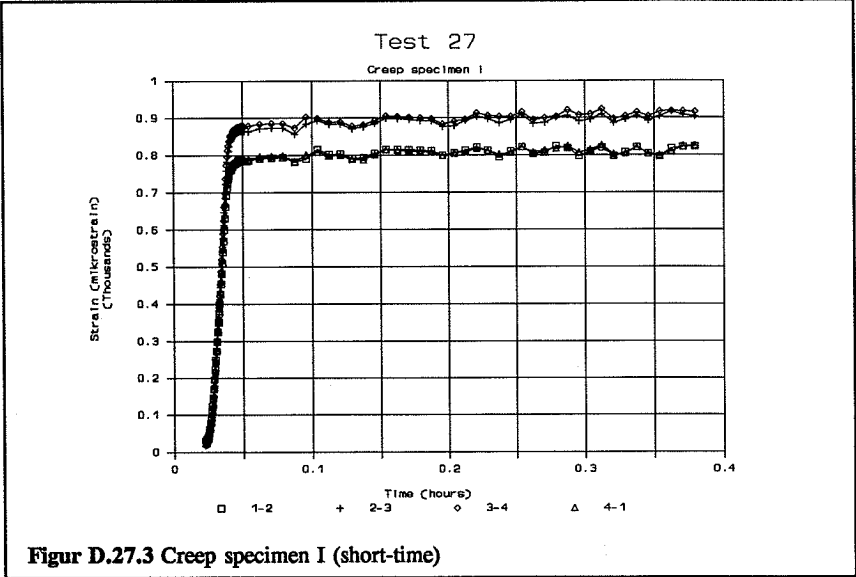


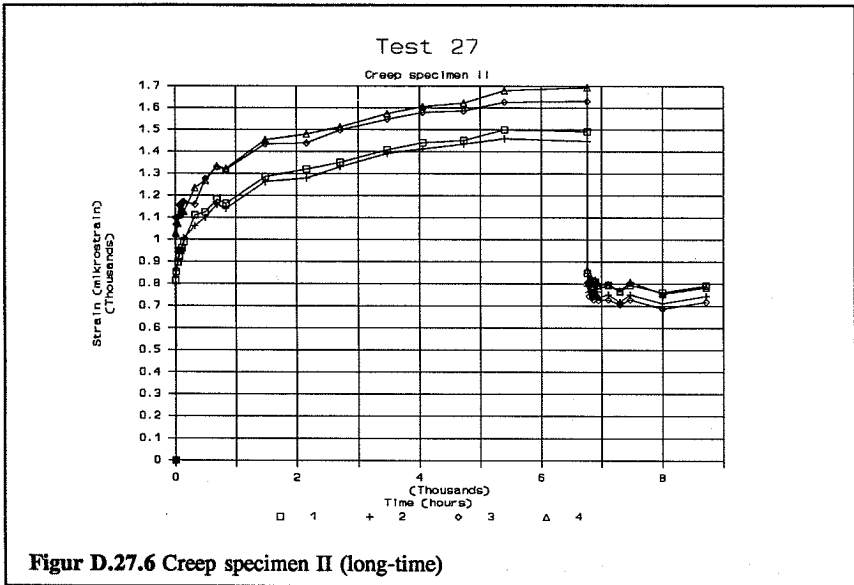
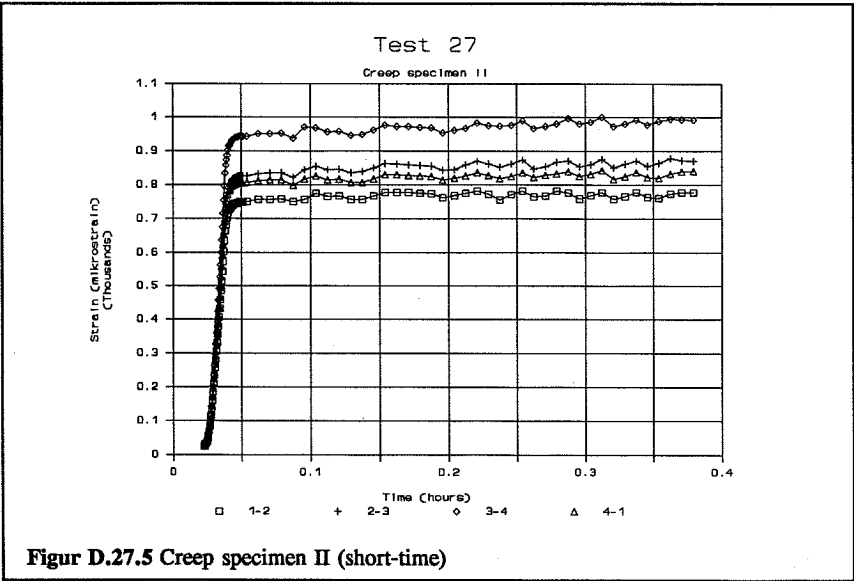
Figure D.26.12 Weightloss of shrinkage specimens (long-time)

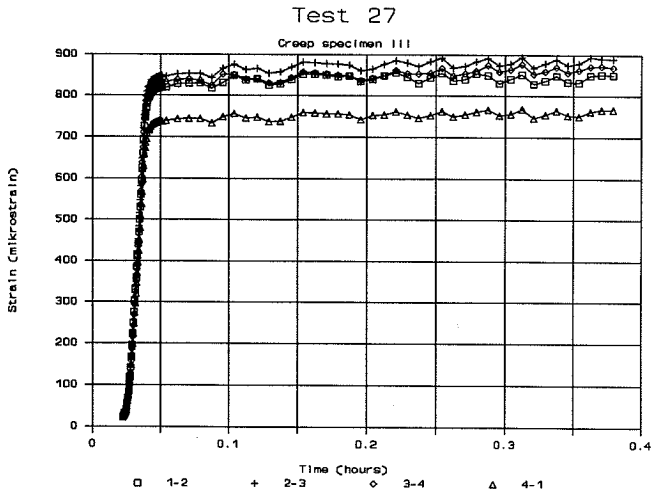


Figur D.26.13 Dynamometer strains (long-time)

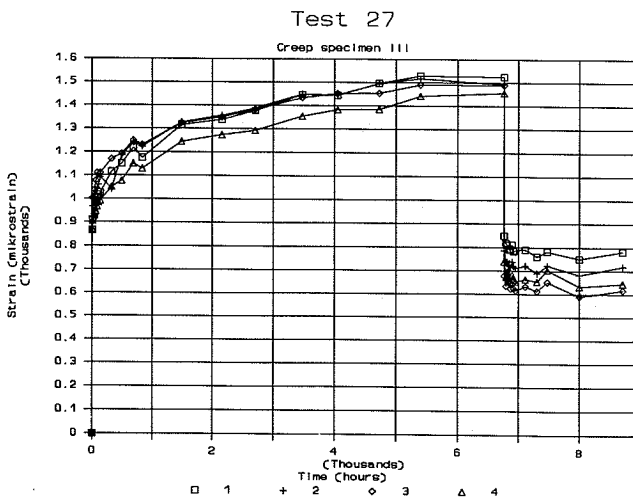




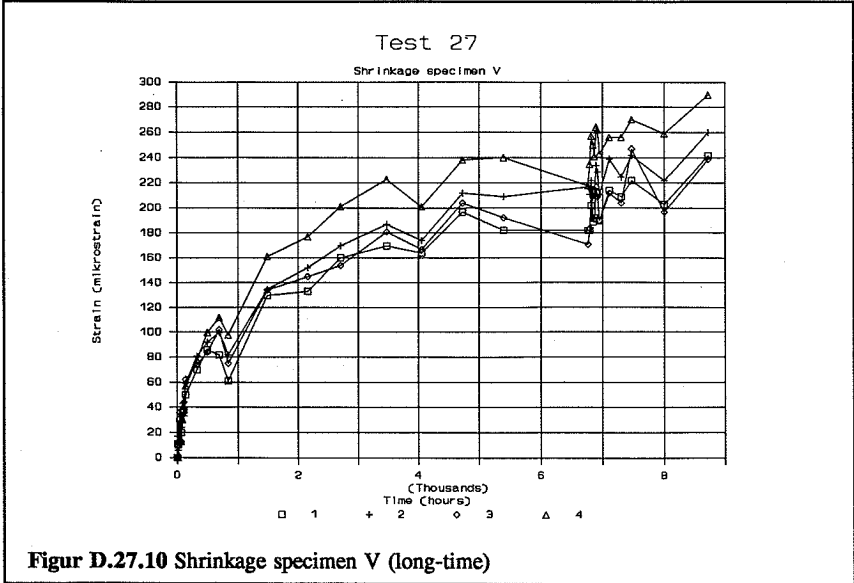
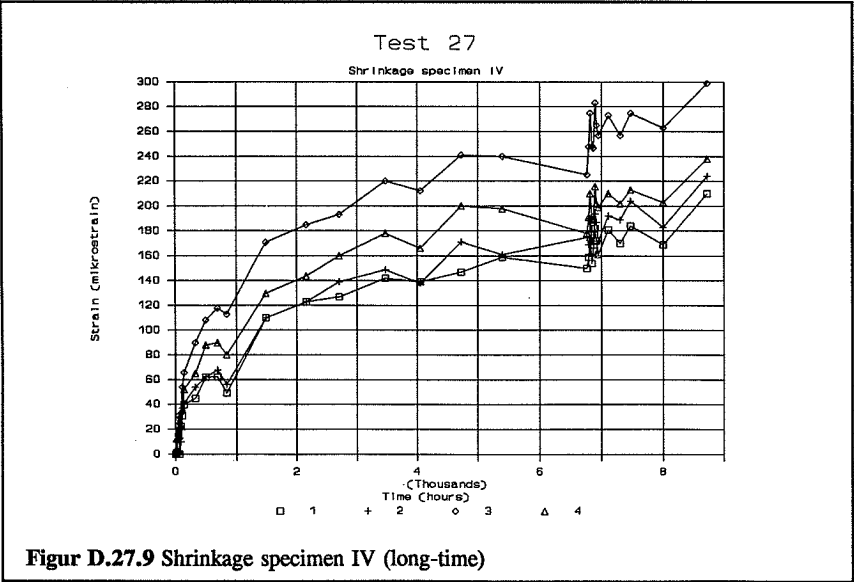


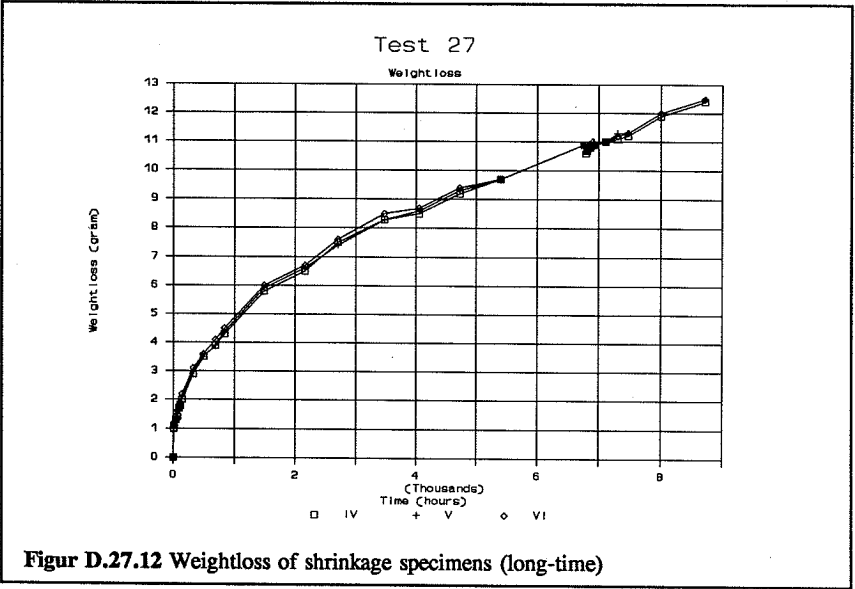
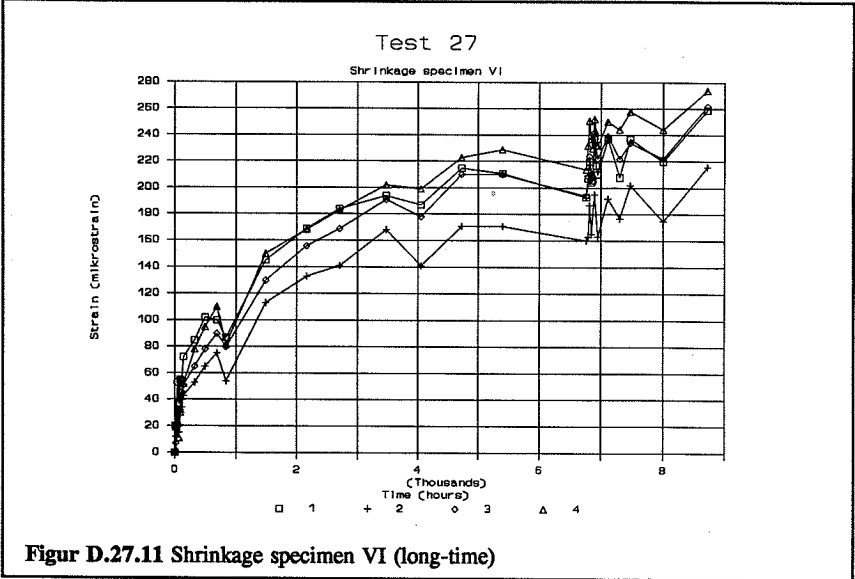


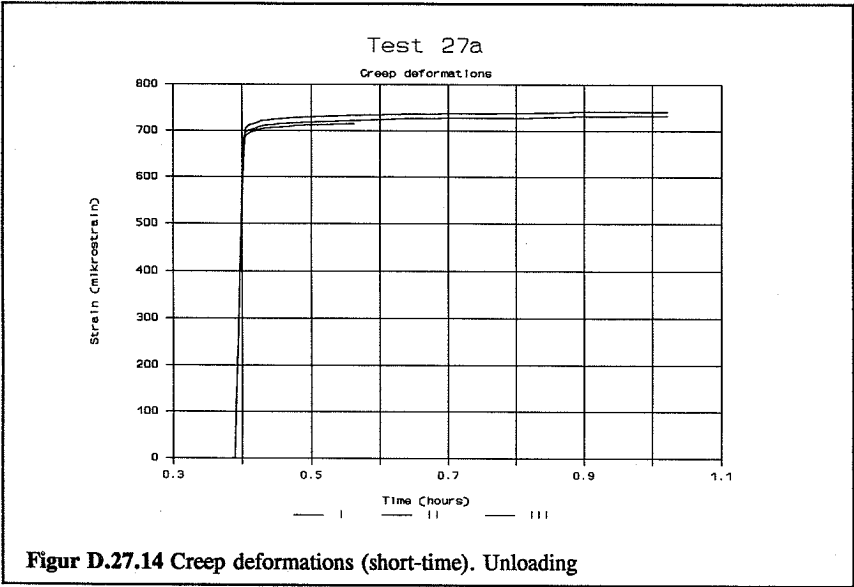
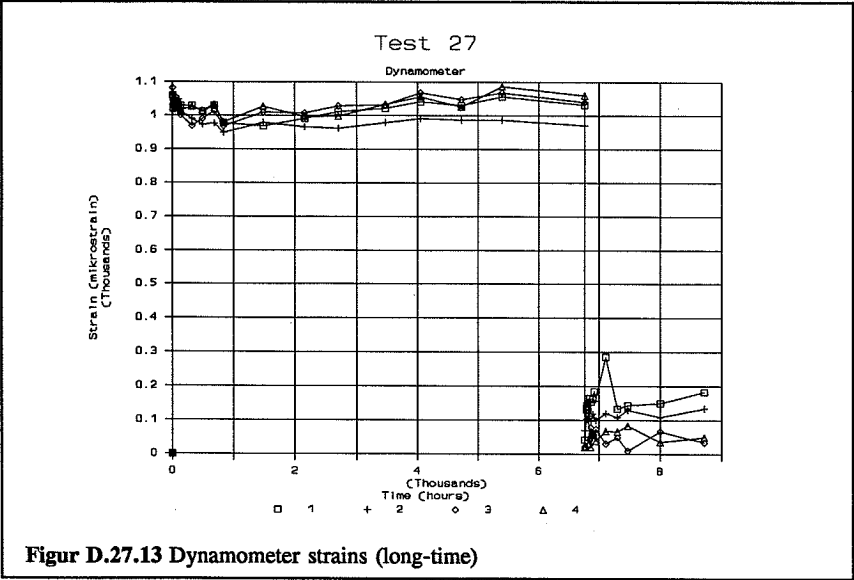
Figur D.27.7 Creep specimen III (short-time)

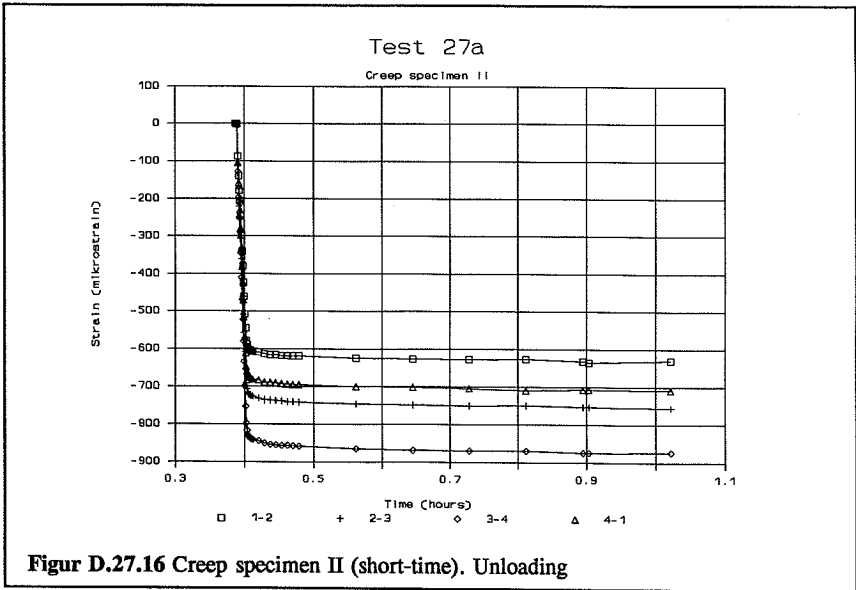
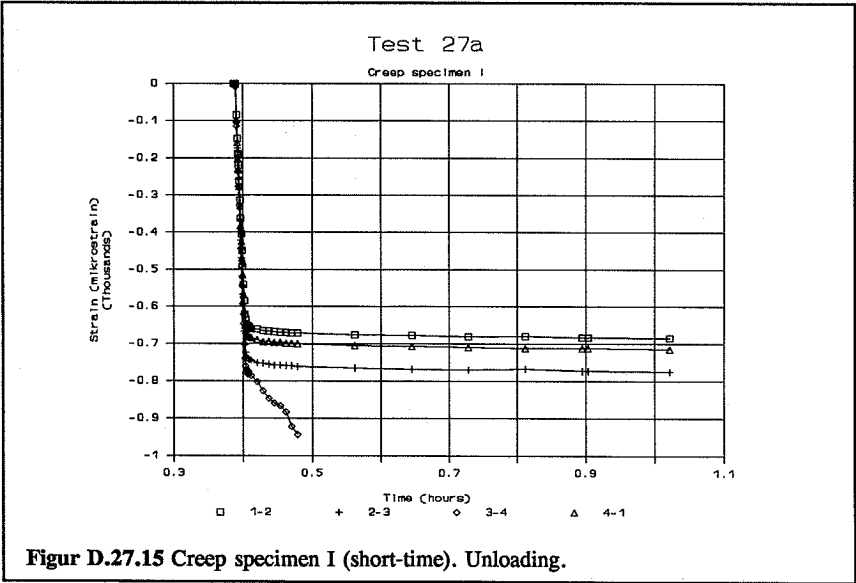


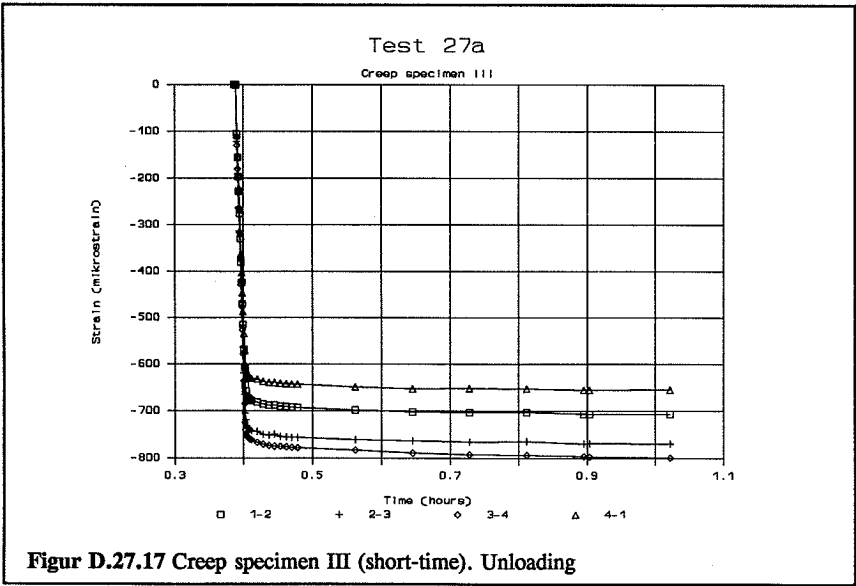
Figur D.27.8 Creep specimen III (long-time)

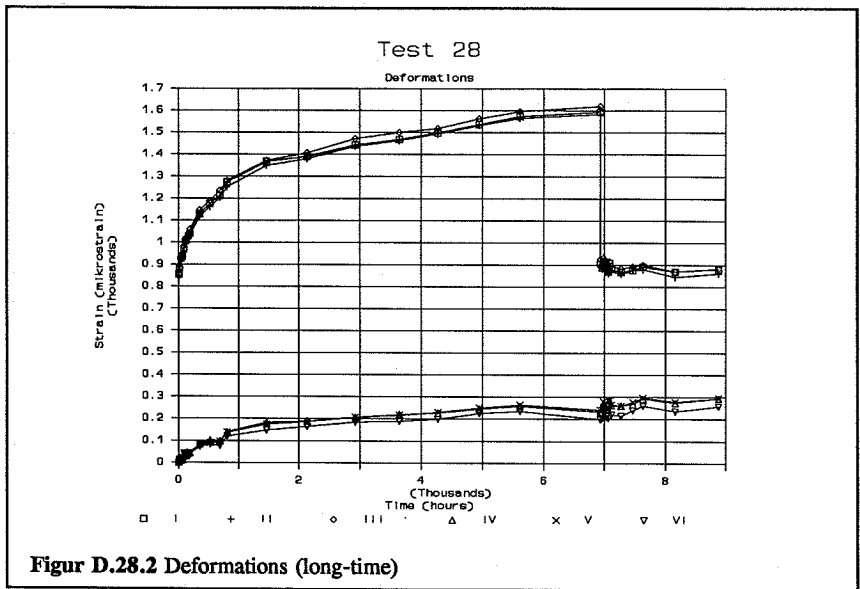
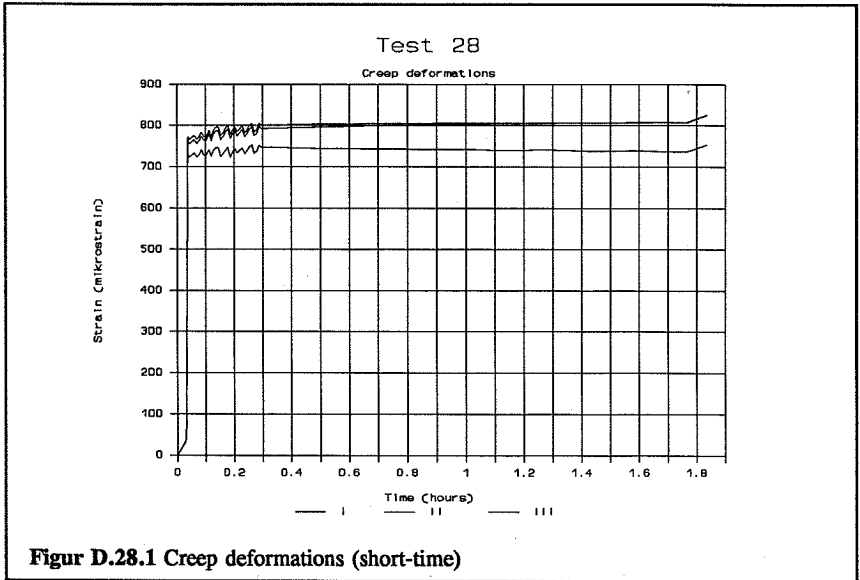


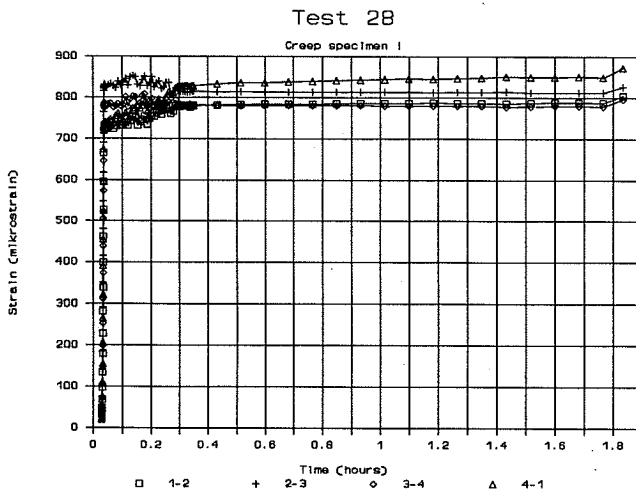




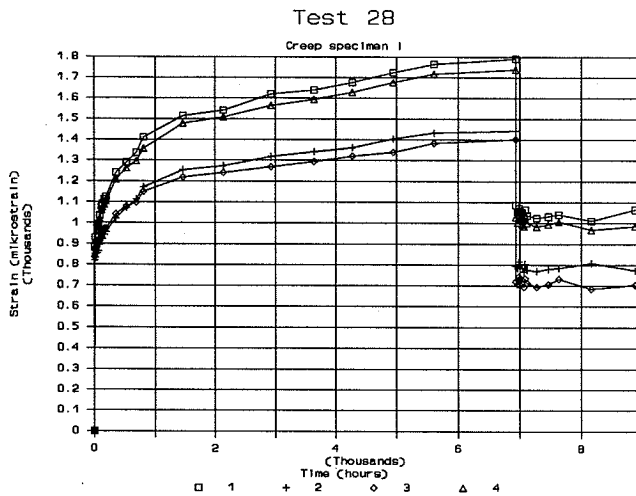




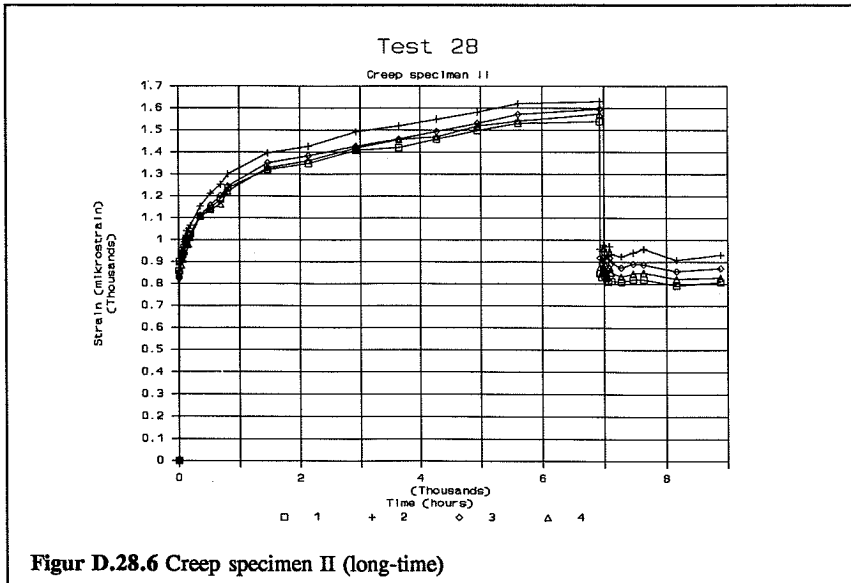
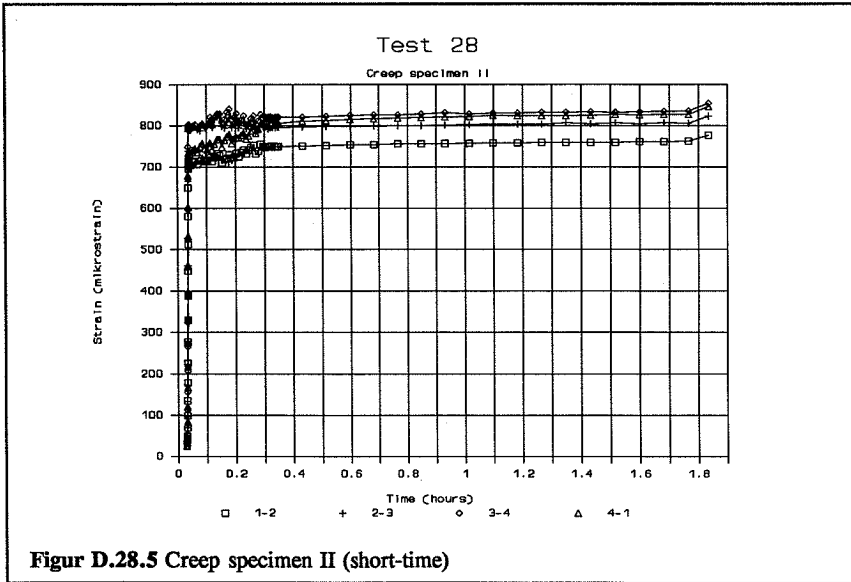


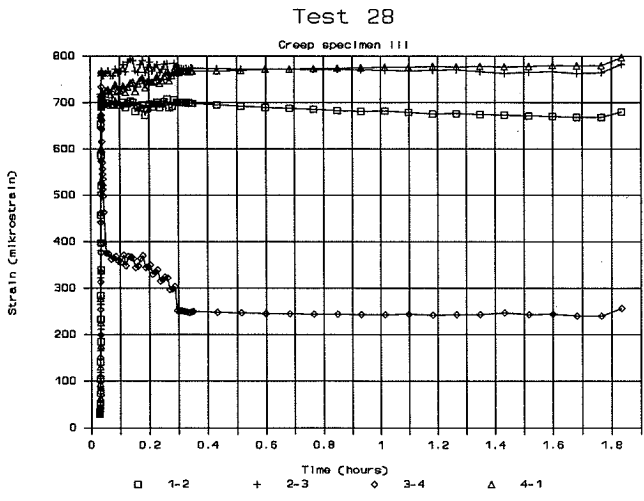


Figur D.28.3 Creep specimen I (short-time)

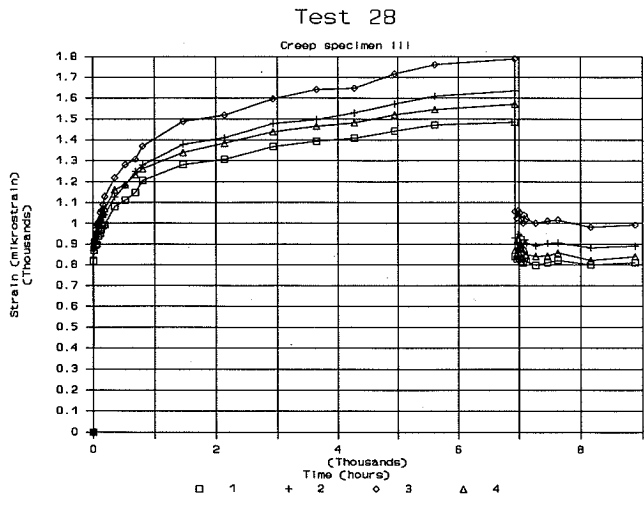


Figur D.28.4 Creep specimen I (long-time)

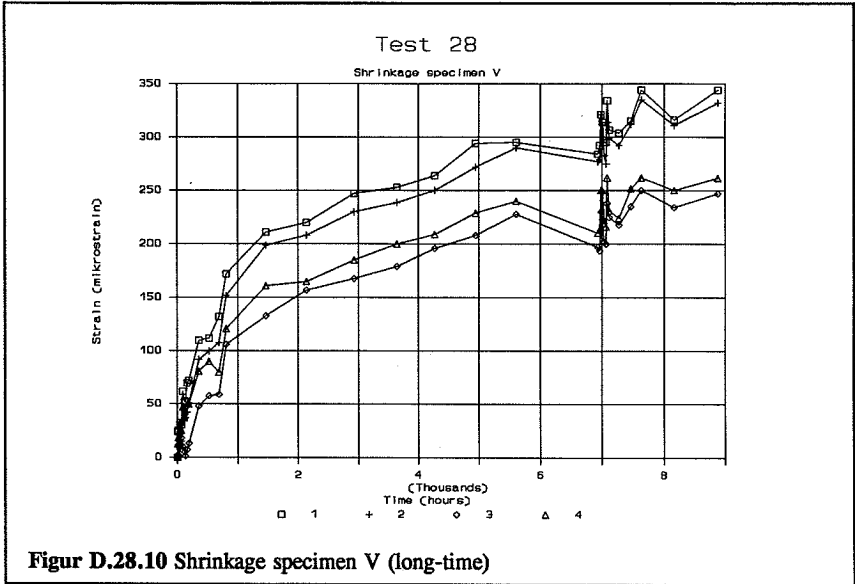
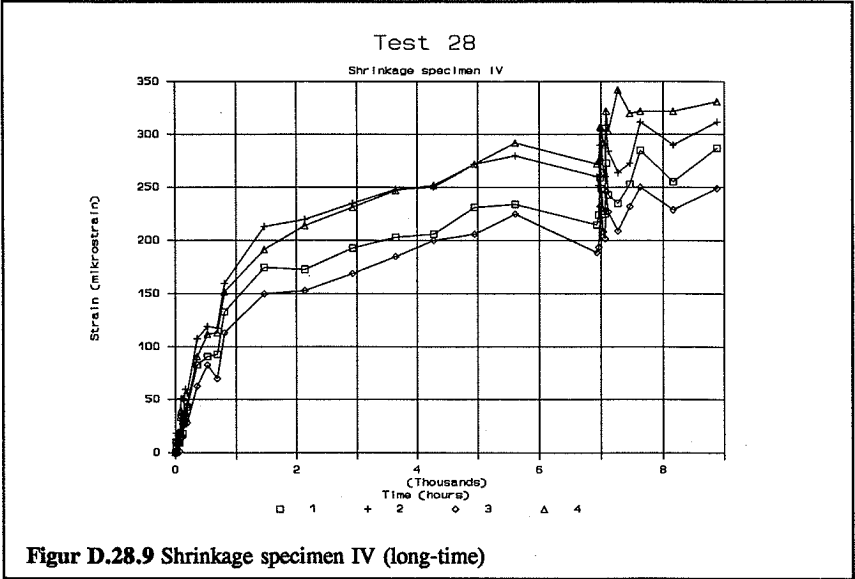


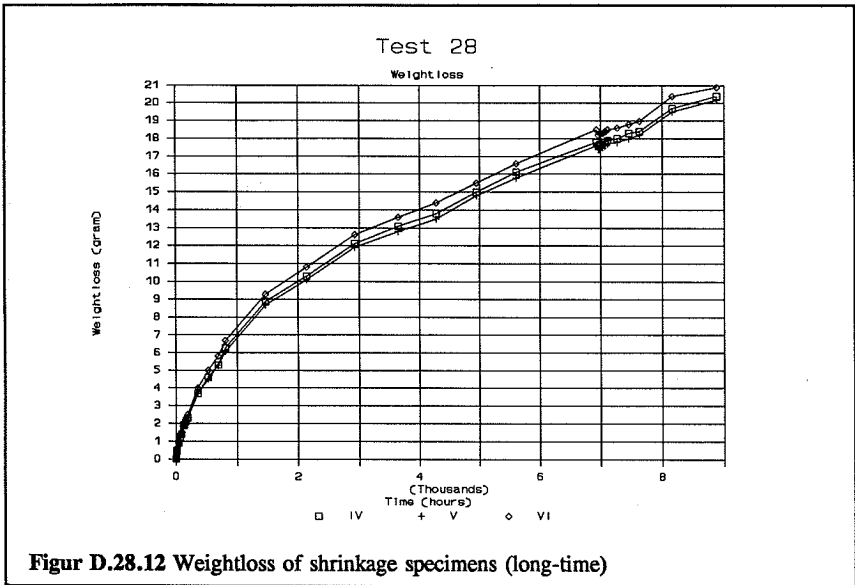
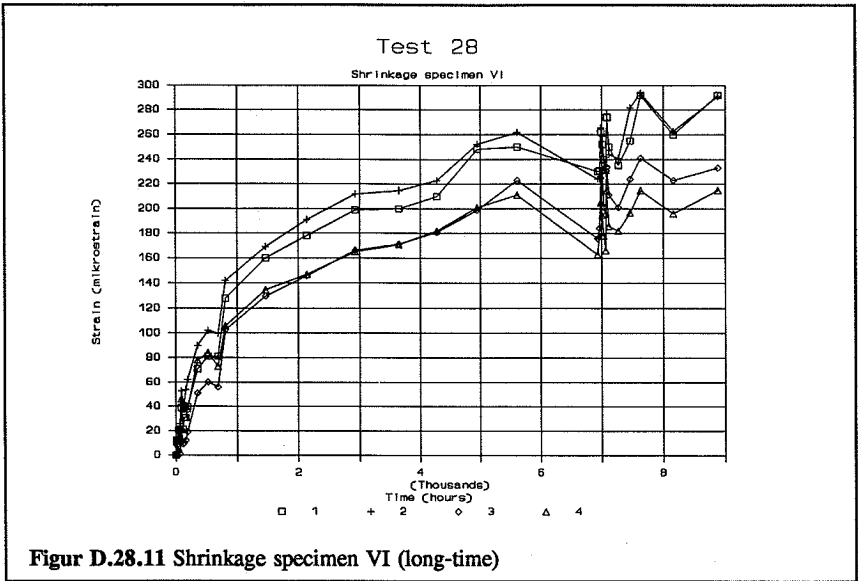


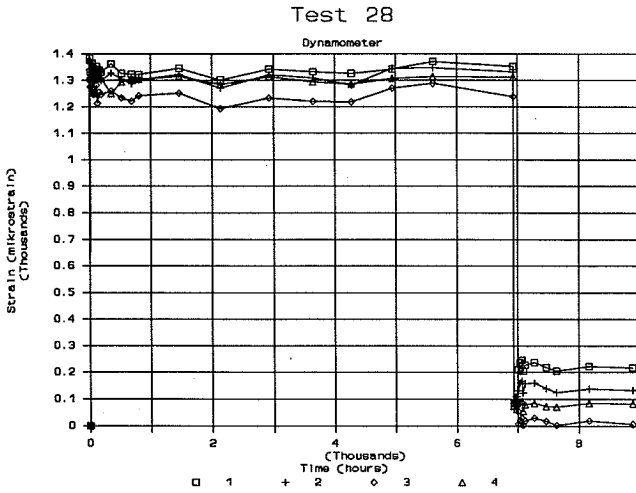
Figur D.28.7 Creep specimen III (short-time)



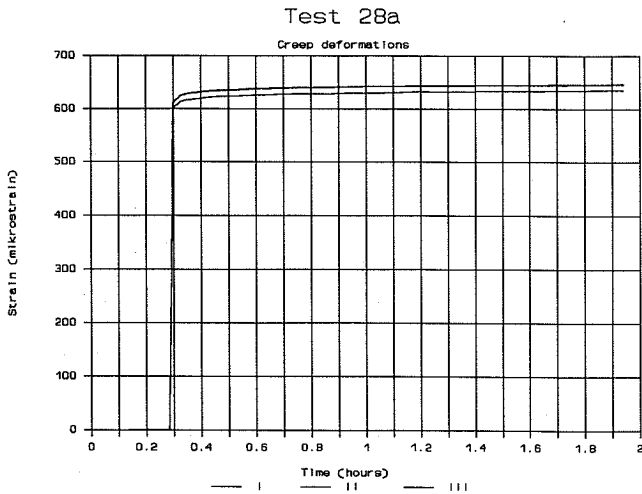
Figur D.28.8 Creep specimen III (long-time)



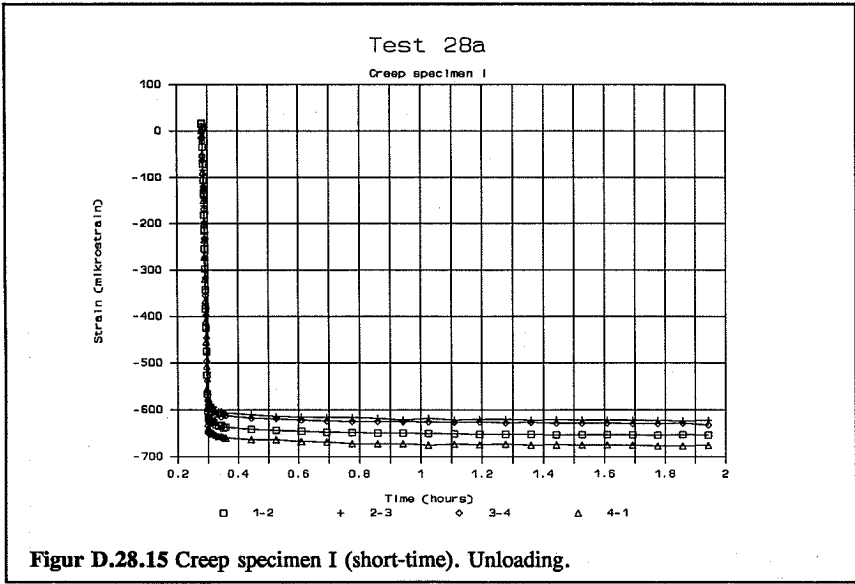




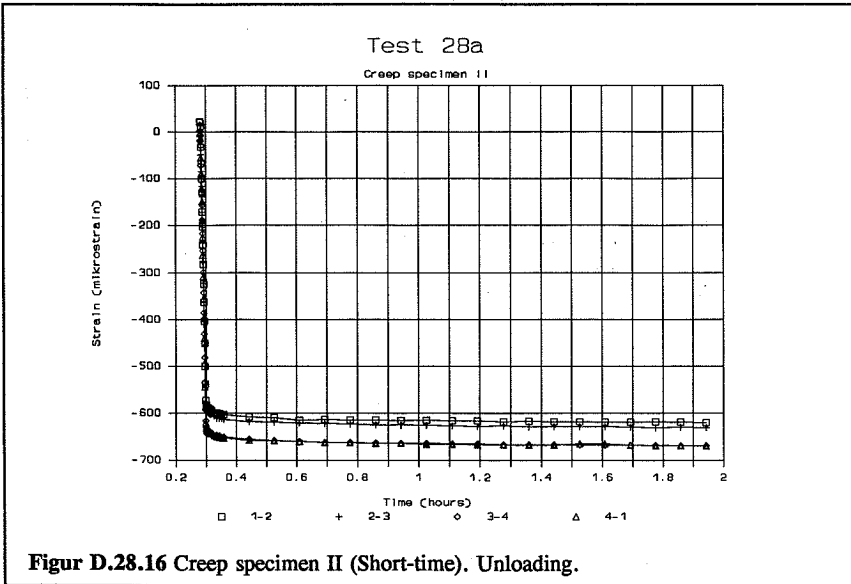
Figur D.28.13 Dynamometer strains (long-time)



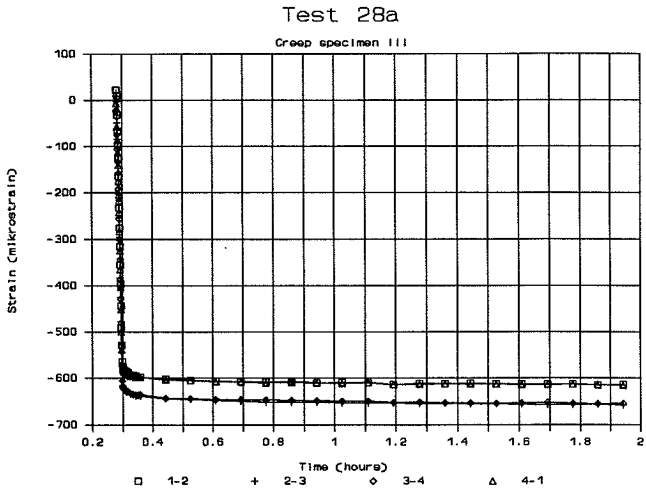
Figur D.28.14 Creep deformations (short-time). Unloading



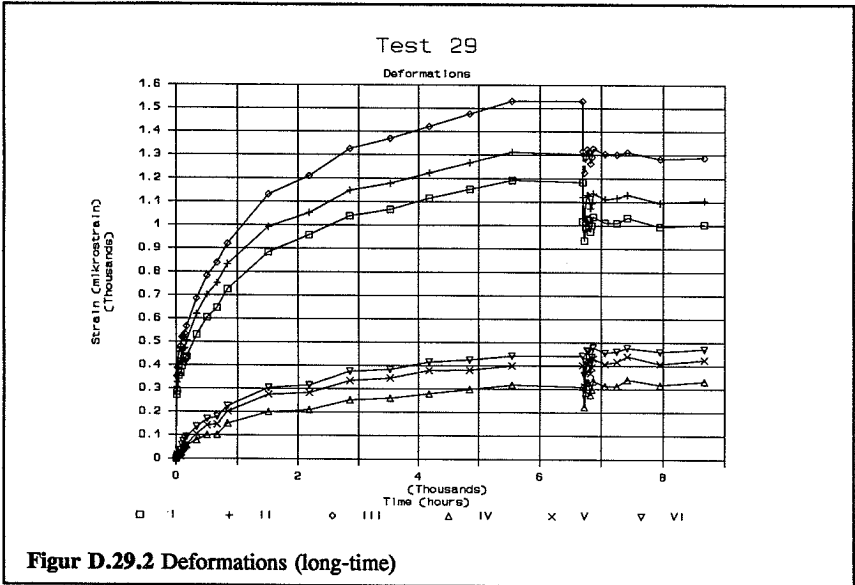
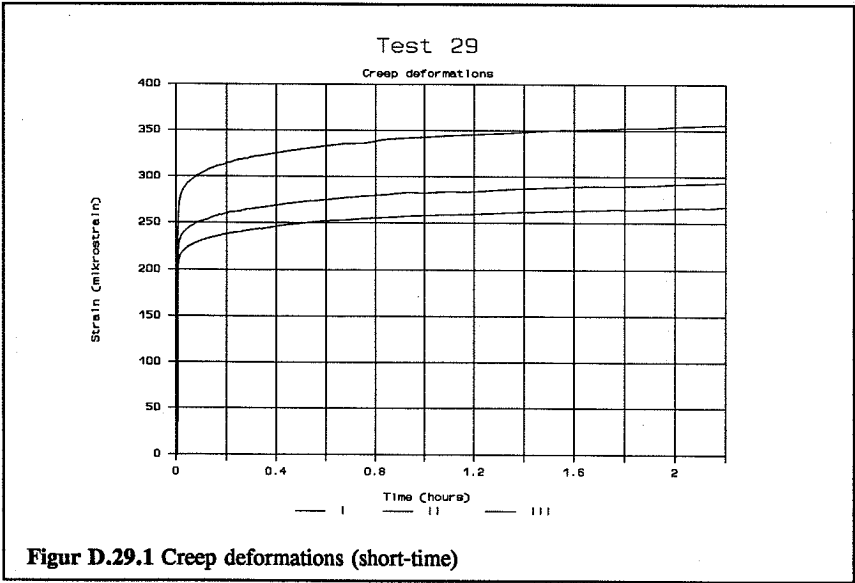
Figur D.28.15 Creep specimen I (short-time). Unloading.

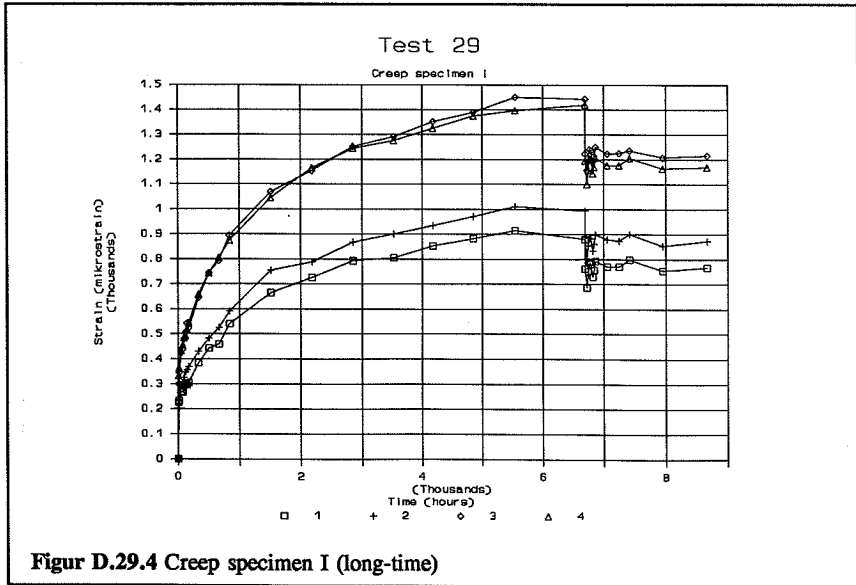
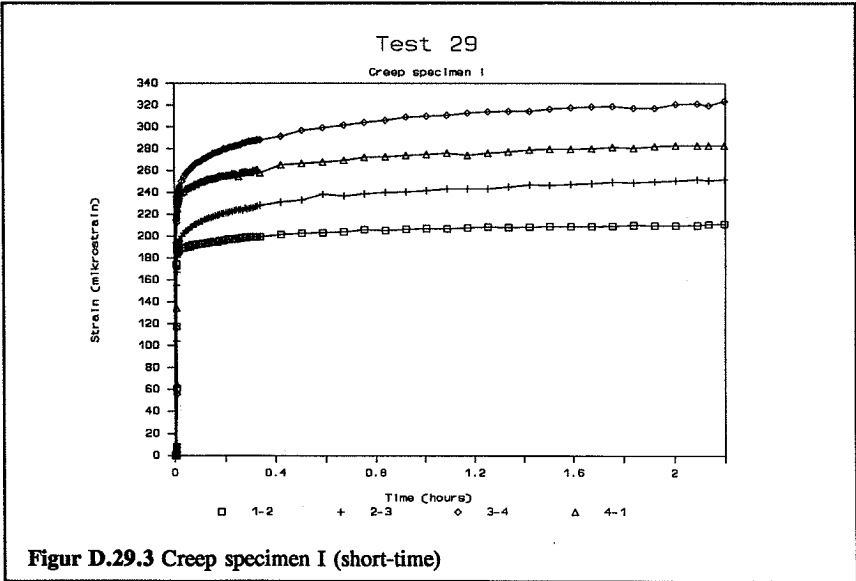


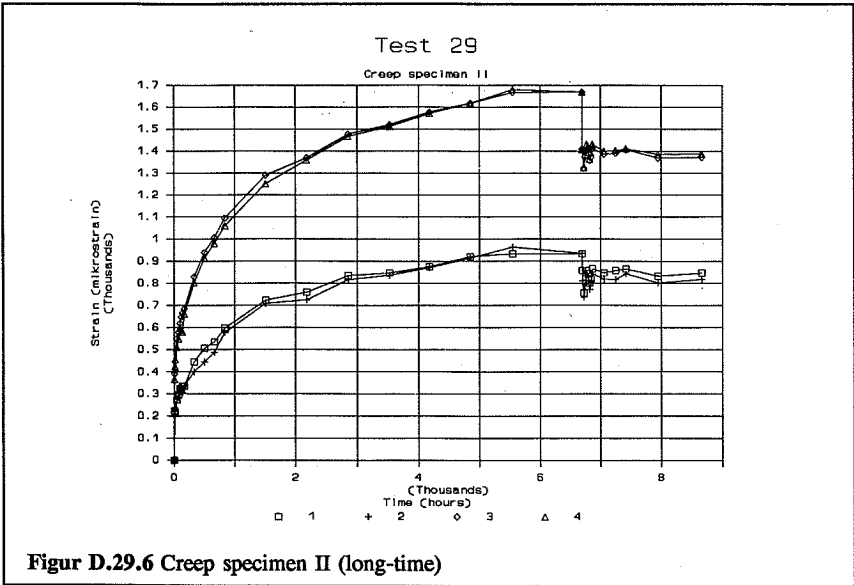
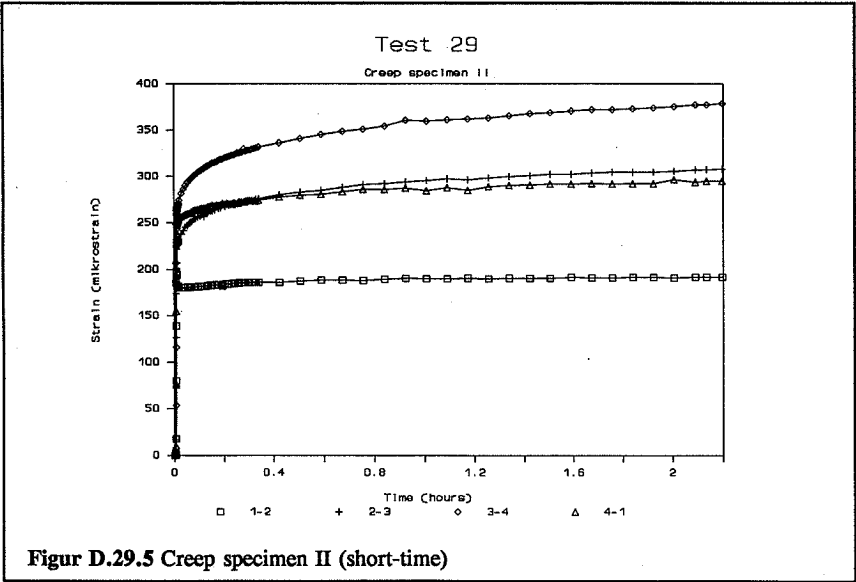
Figur D.28.16 Creep specimen II (Short-time). Unloading.

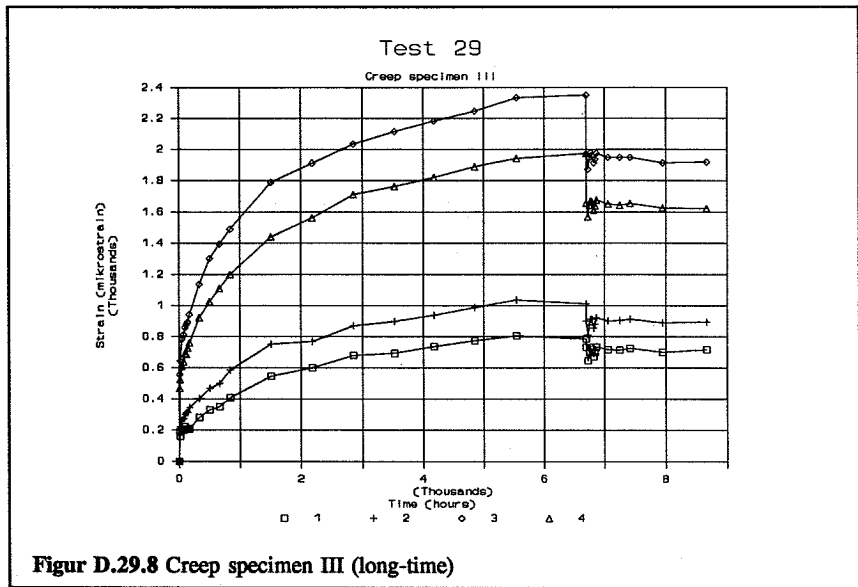
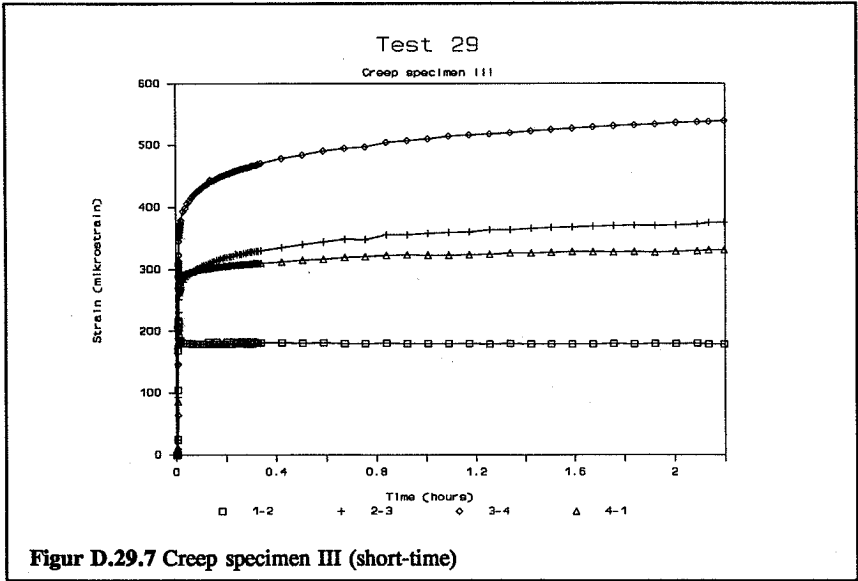


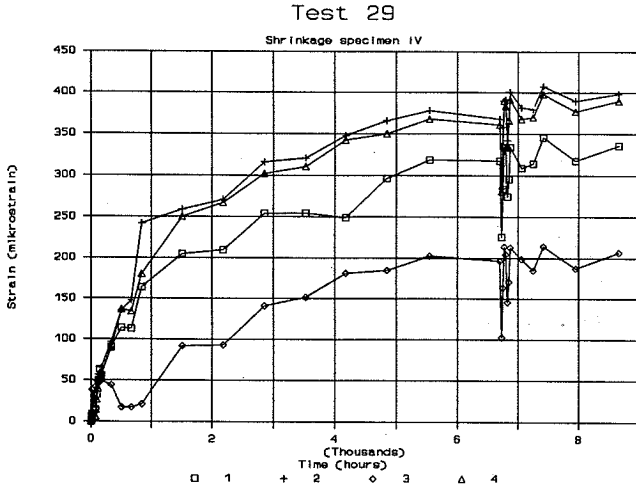
Figur D.28.17 Creep specimen III (Short-time). Unloading.



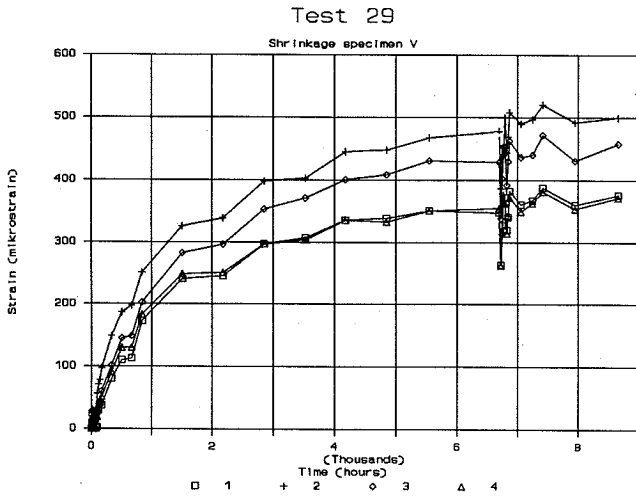




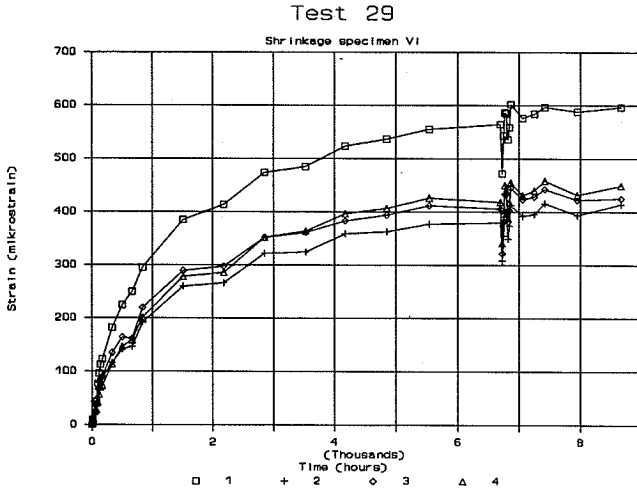




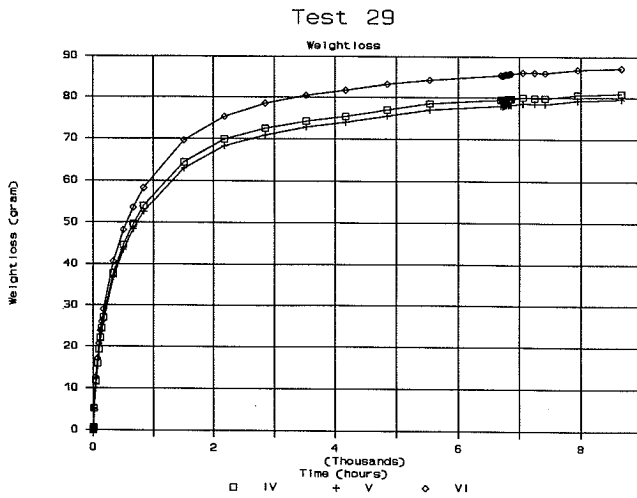
Figur D.29.9 Shrinkage specimen IV (long-time)



Figur D.29.10 Shrinkage specimen V (long-time)



Figur D.29.11 Shrinkage specimen VI (long-time)



Figur D.29.12 Weightloss of shrinkage specimens (long-time)

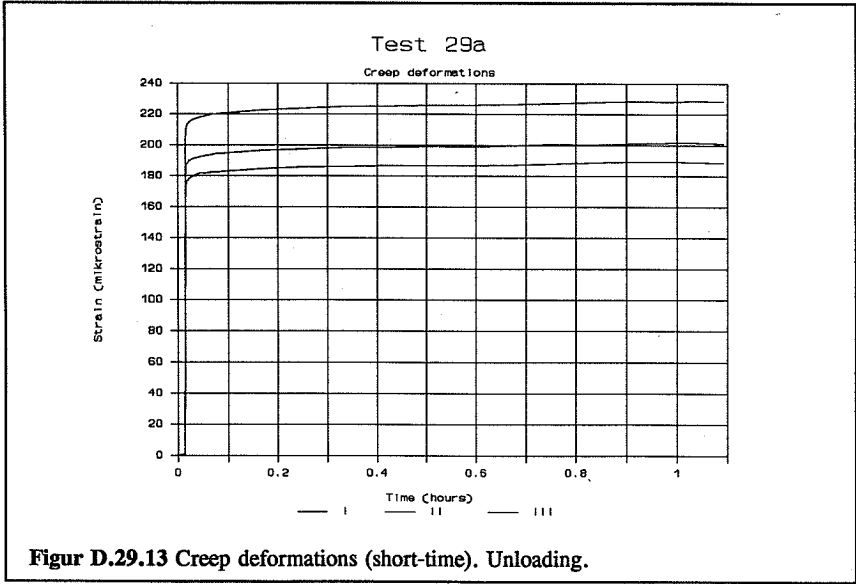


Figure D.29.13 Creep deformations (short-time). Unloading.

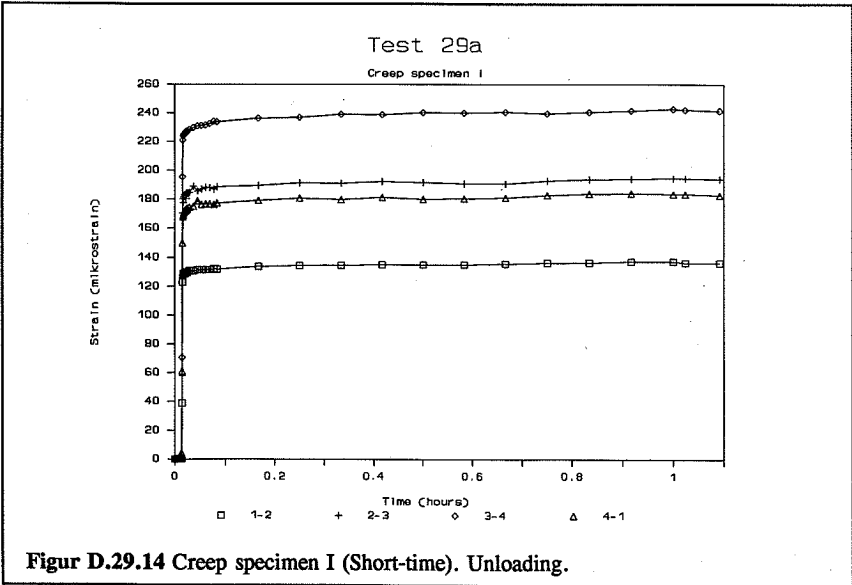
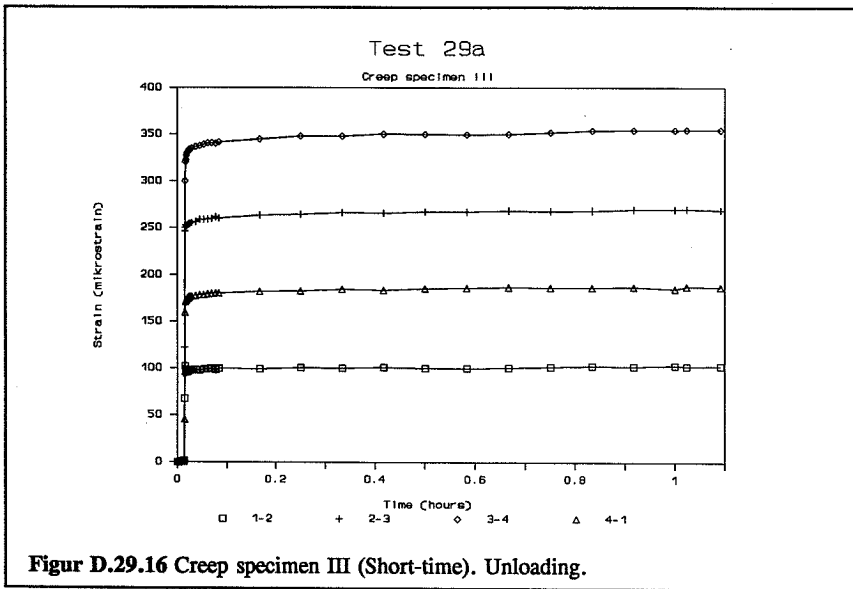
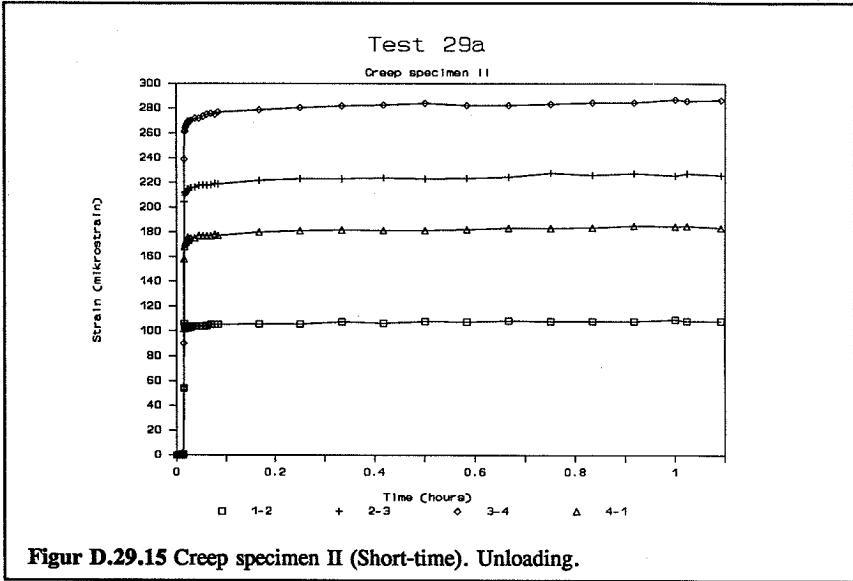
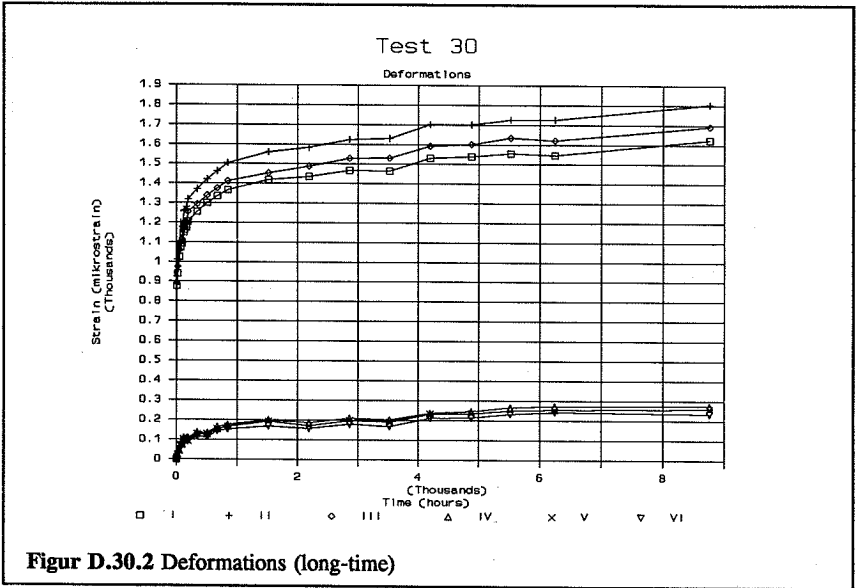
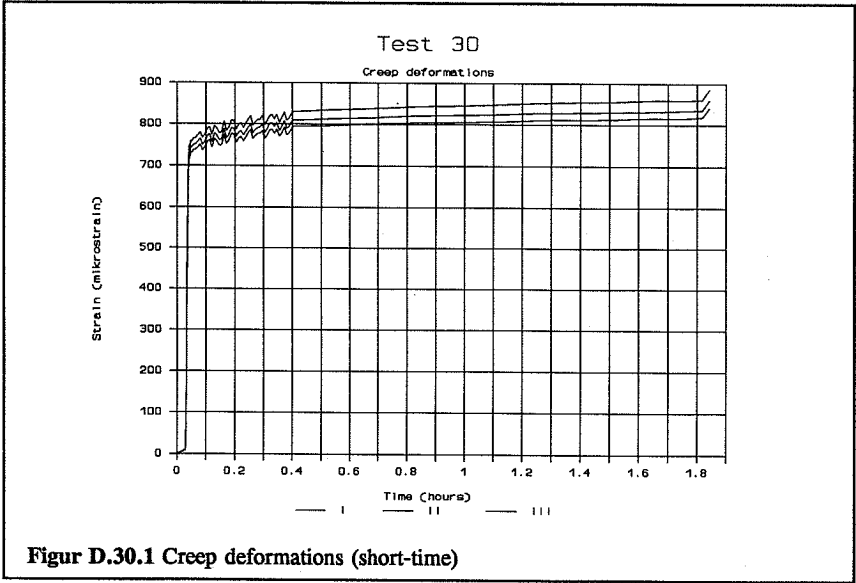
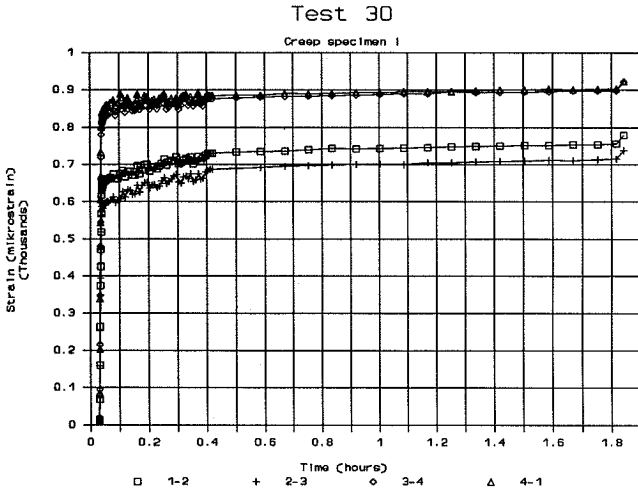


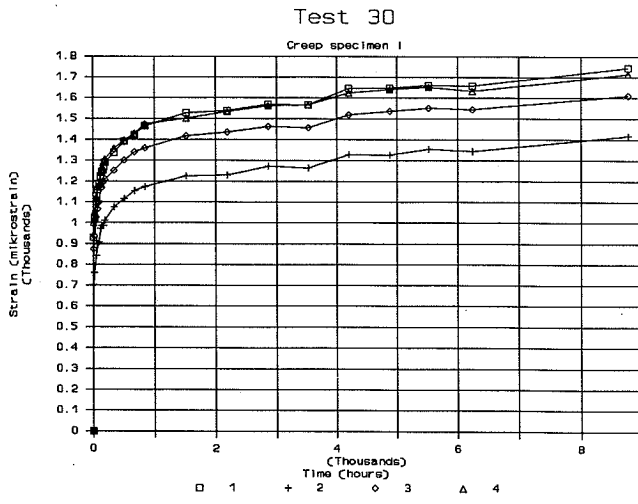
Figure D.29.14 Creep specimen I (Short-time). Unloading.



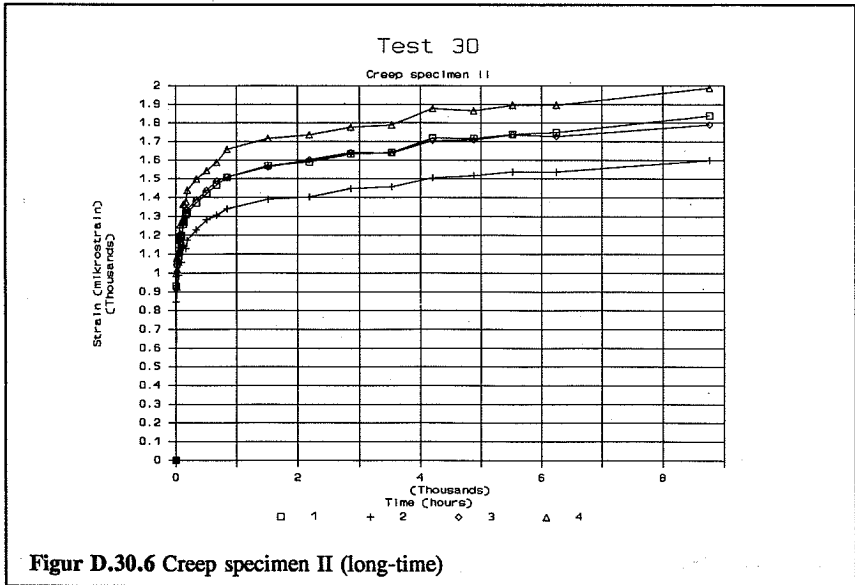
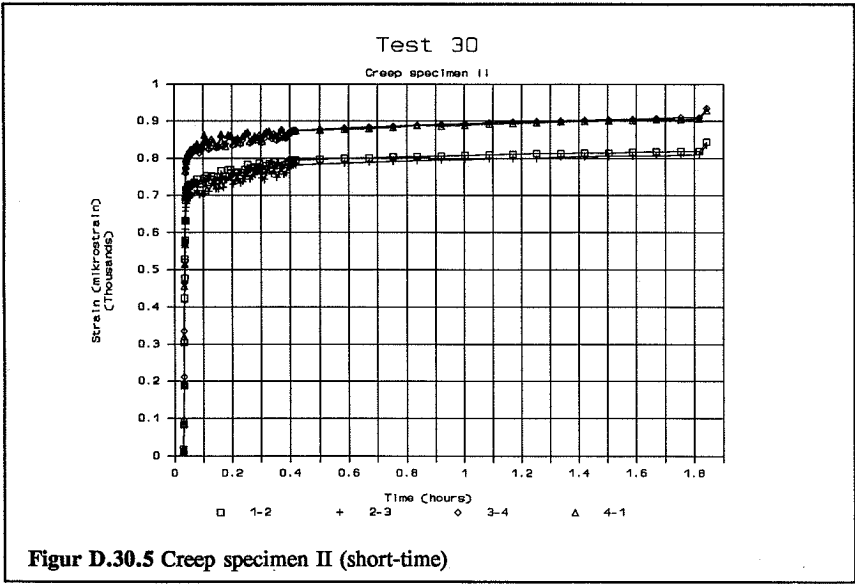


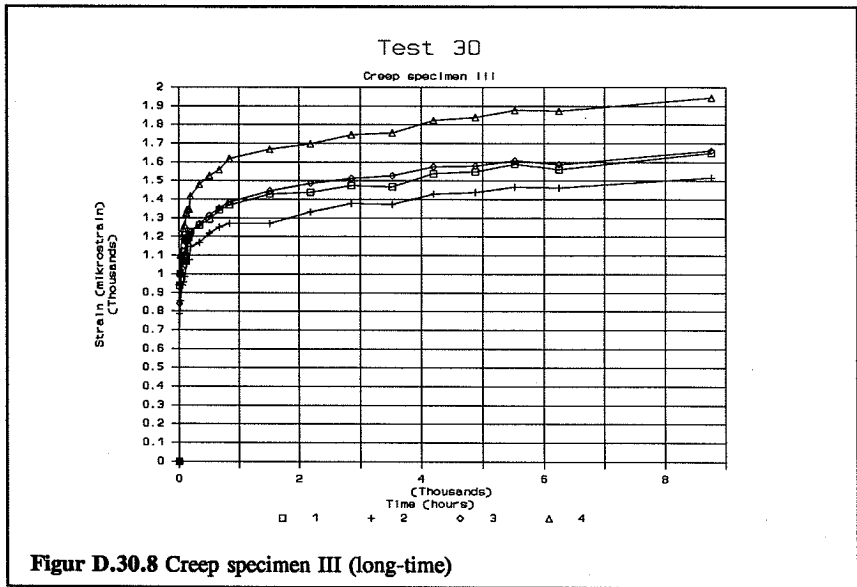
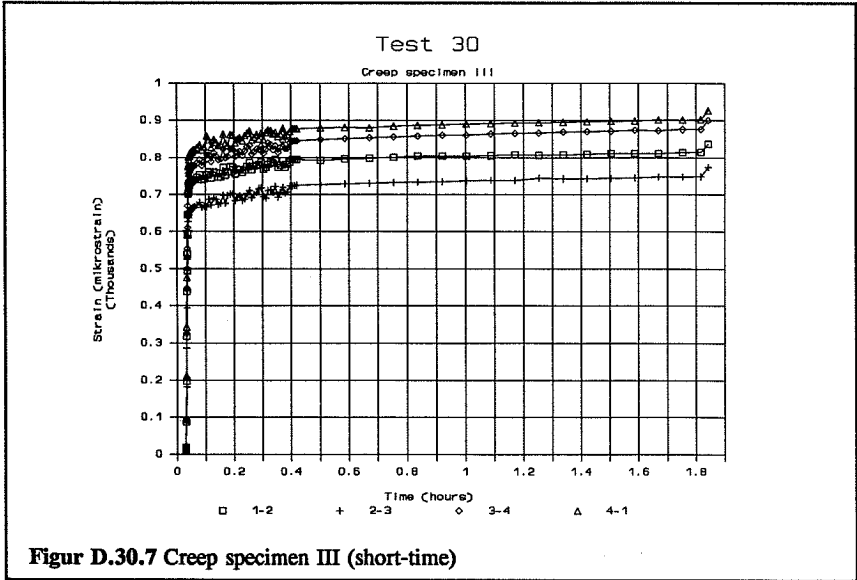


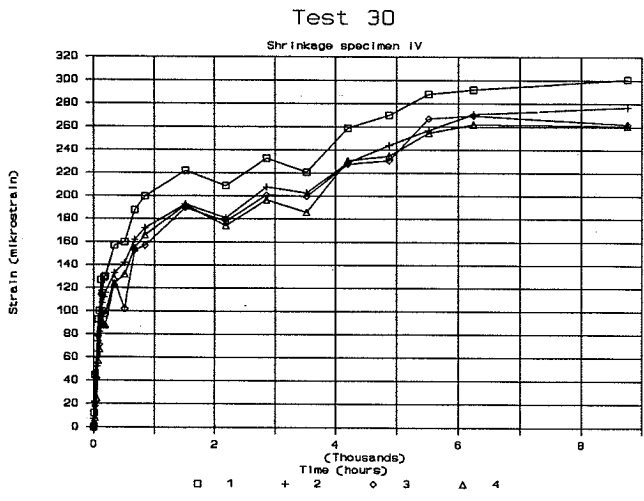
Figur D.30.3 Creep specimen I (short-time)



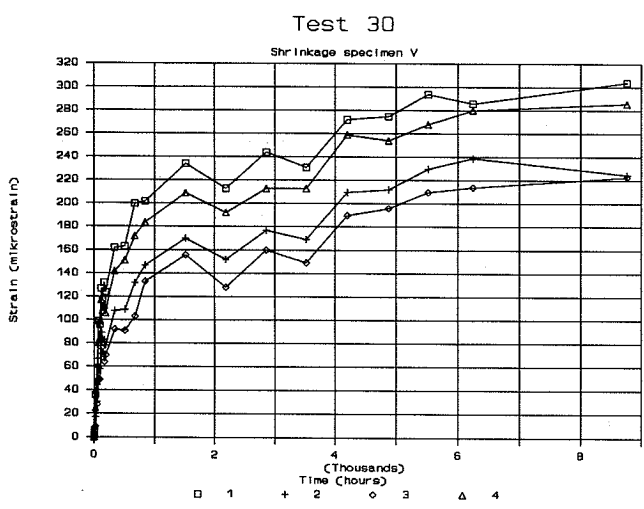
Figur D.30.4 Creep specimen I (long-time)







Figur D.30.9 Shrinkage specimen IV (long-time)



Figur D.30.10 Shrinkage specimen V (long-time)

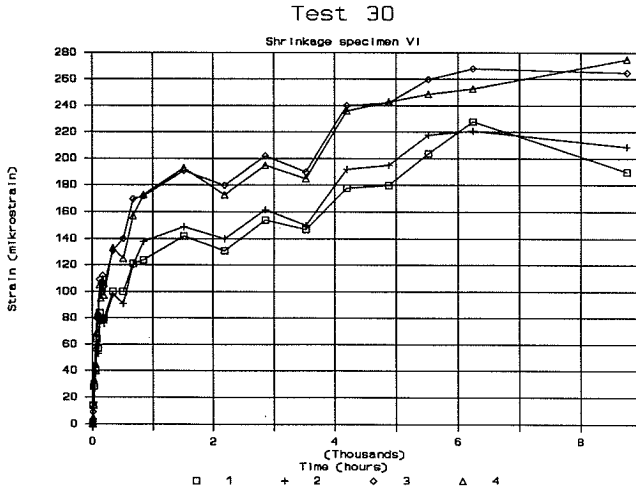


Figure D.30.11 Shrinkage specimen VI (long-time)

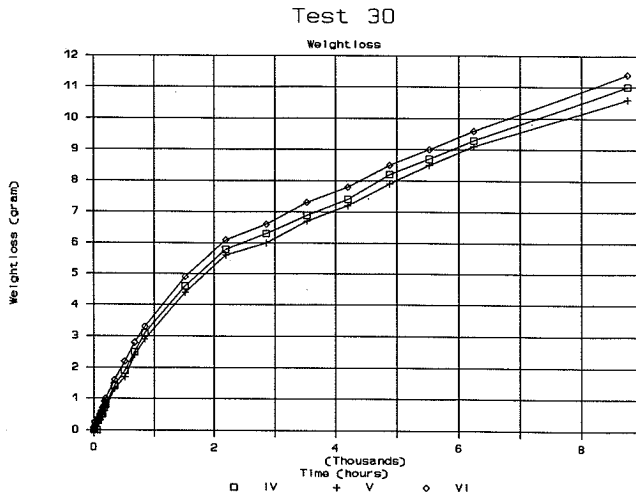
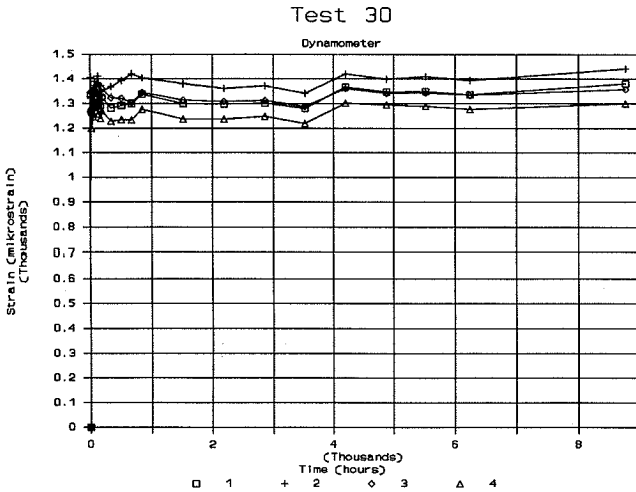
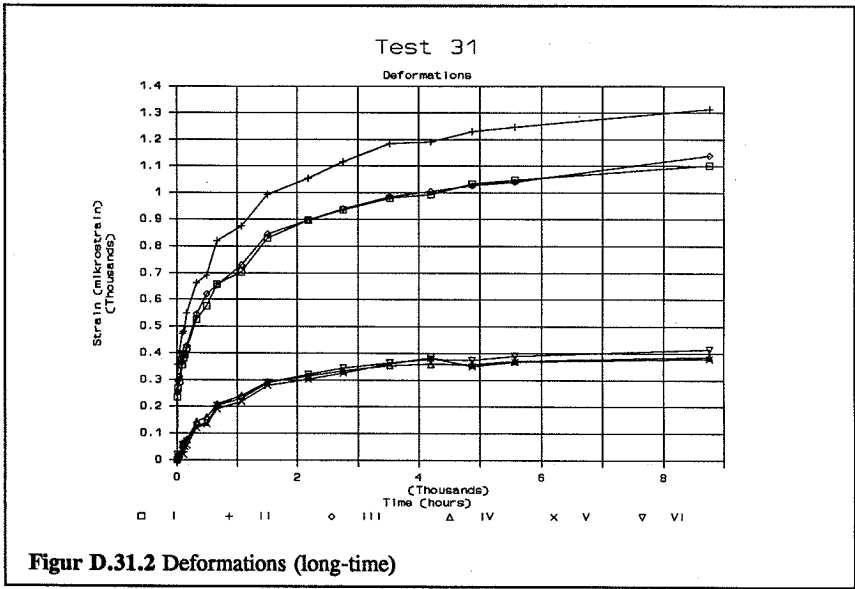
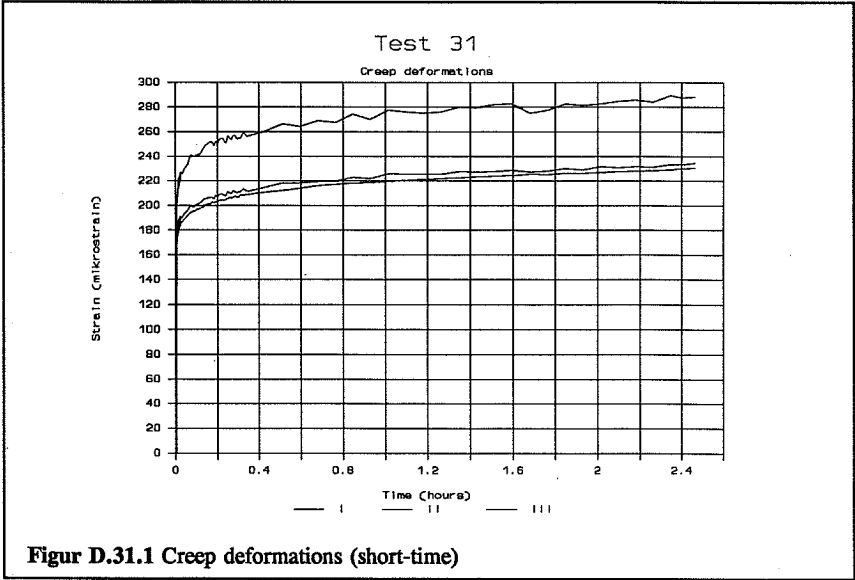
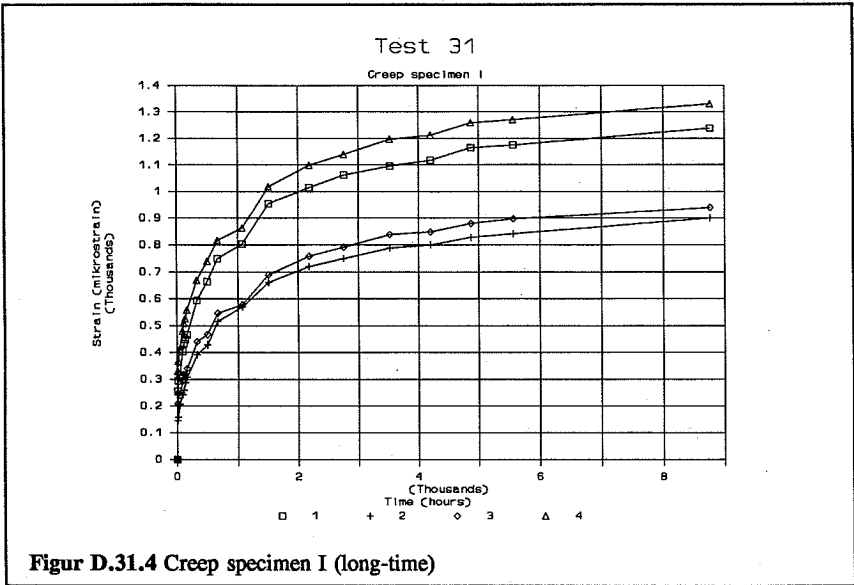
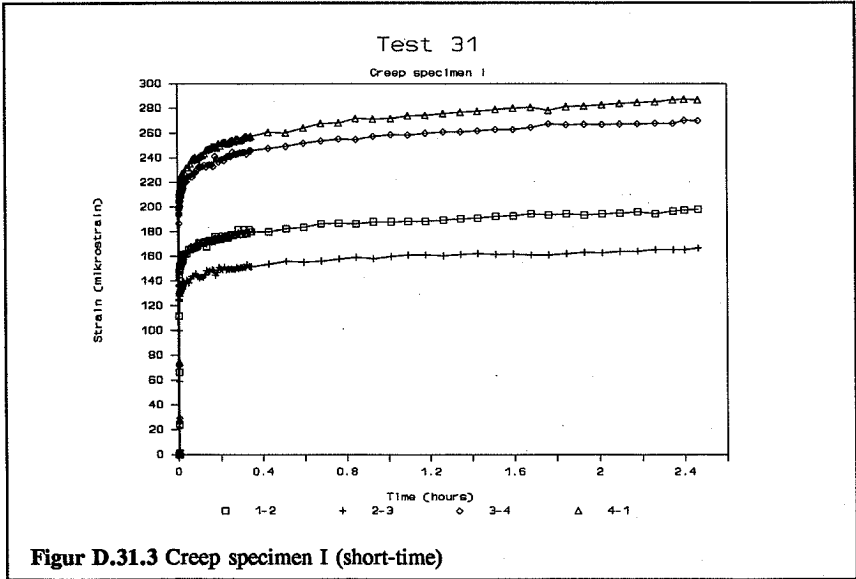


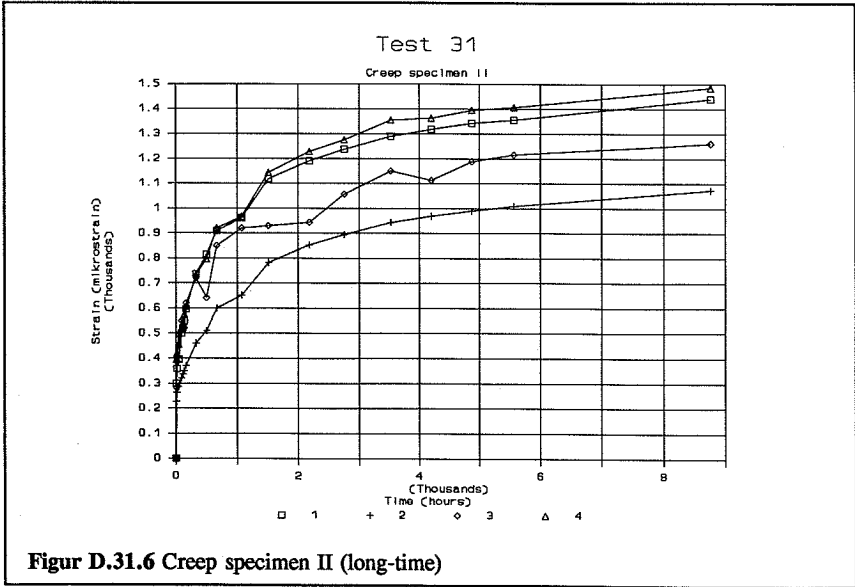
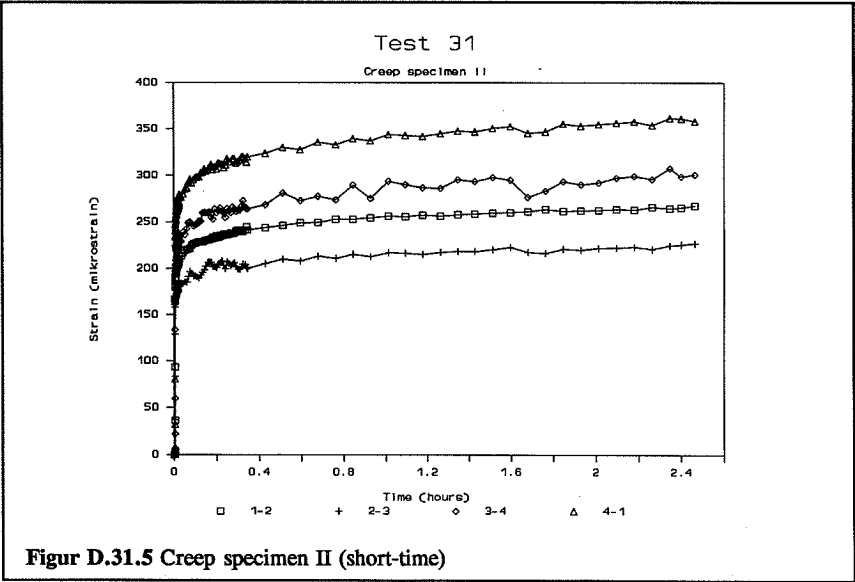
Figure D.30.12 Weightloss of shrinkage specimens (long-time)

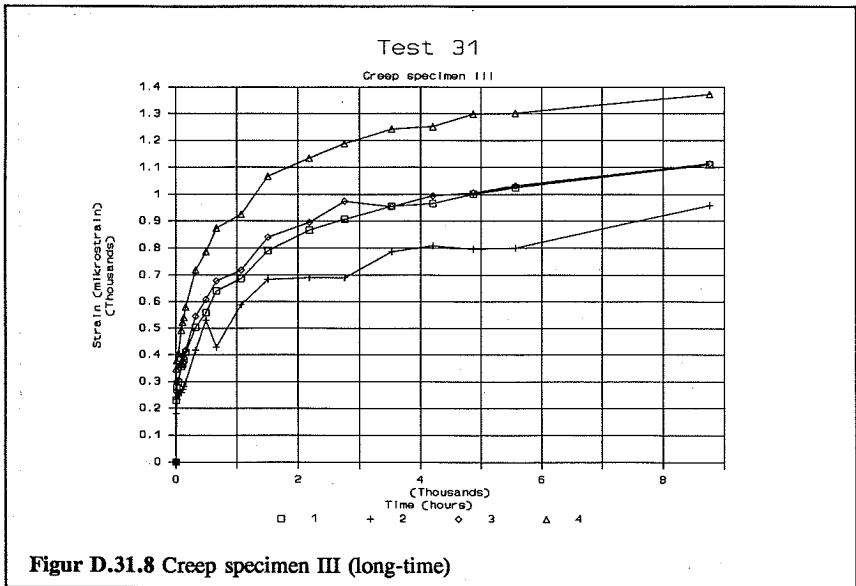
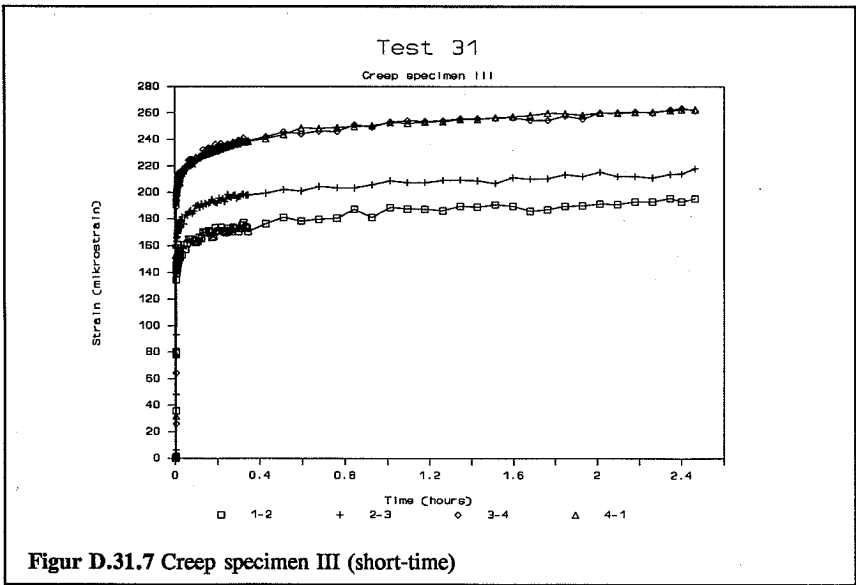


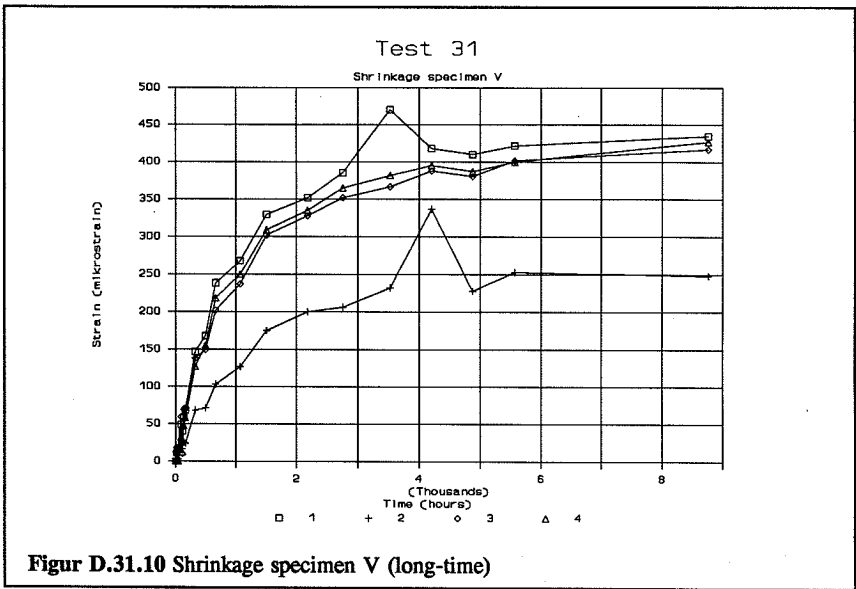
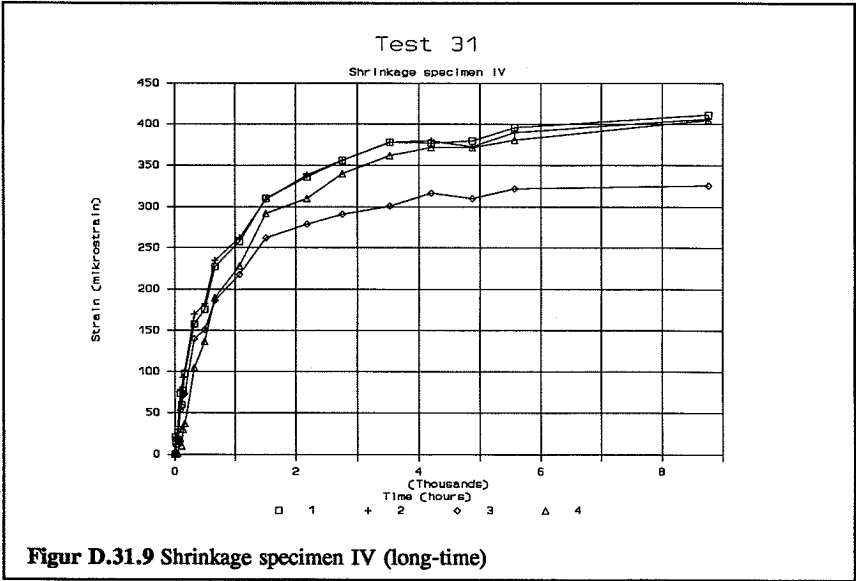
Figur D.30.13 Dynamometer strains (long-time)











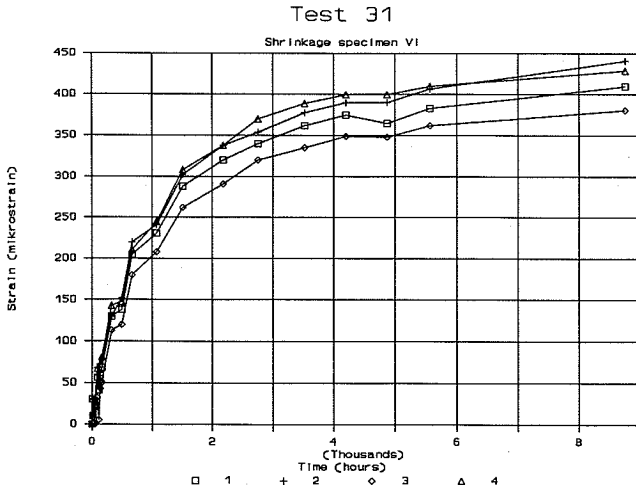


Figure D.31.11 Shrinkage specimen VI (long-time)

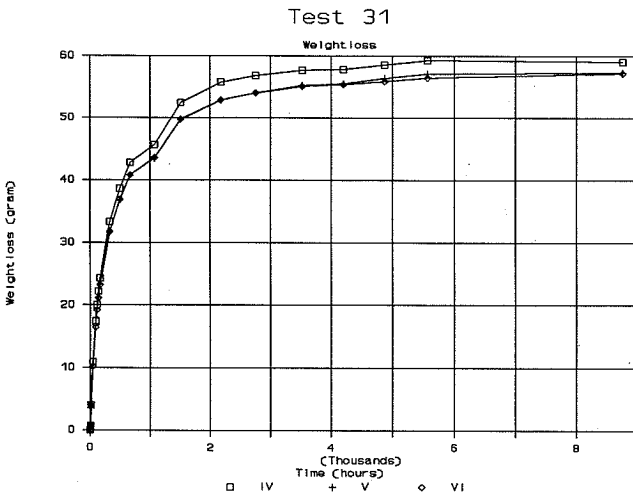
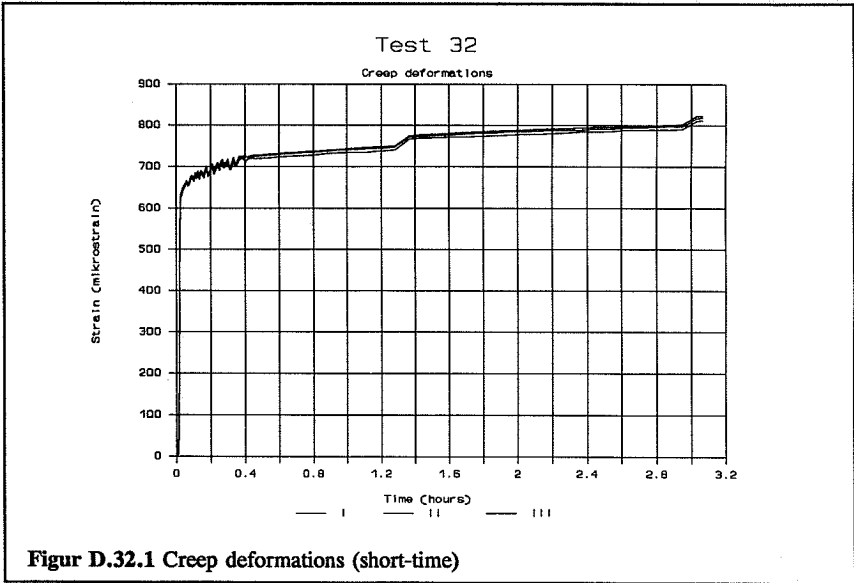
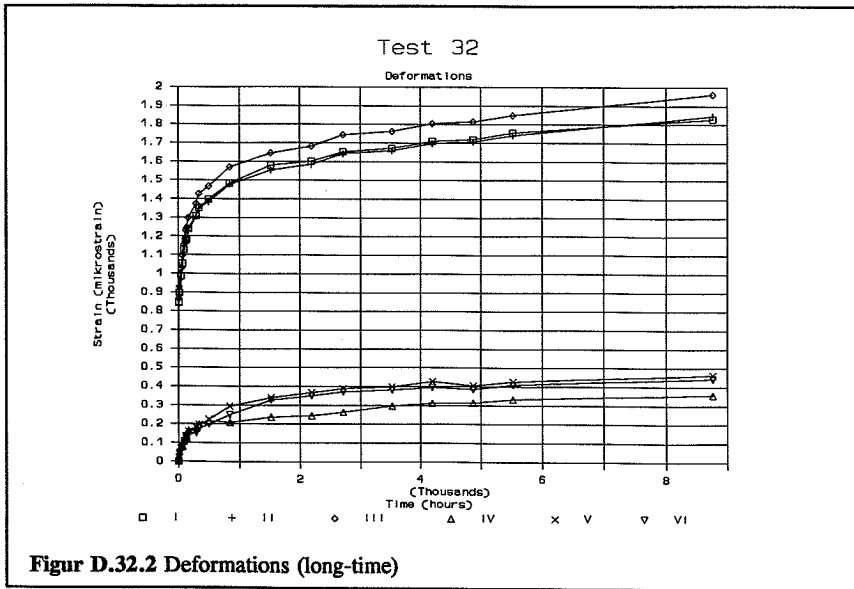


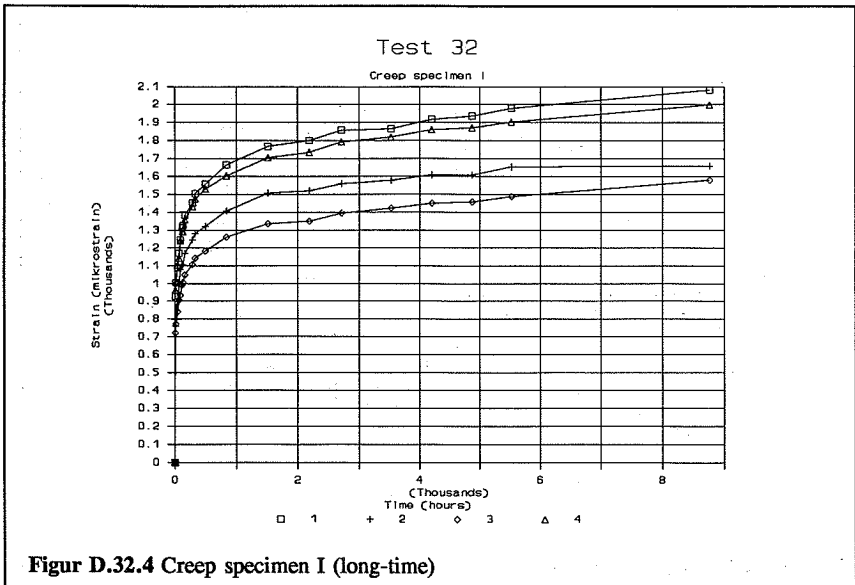
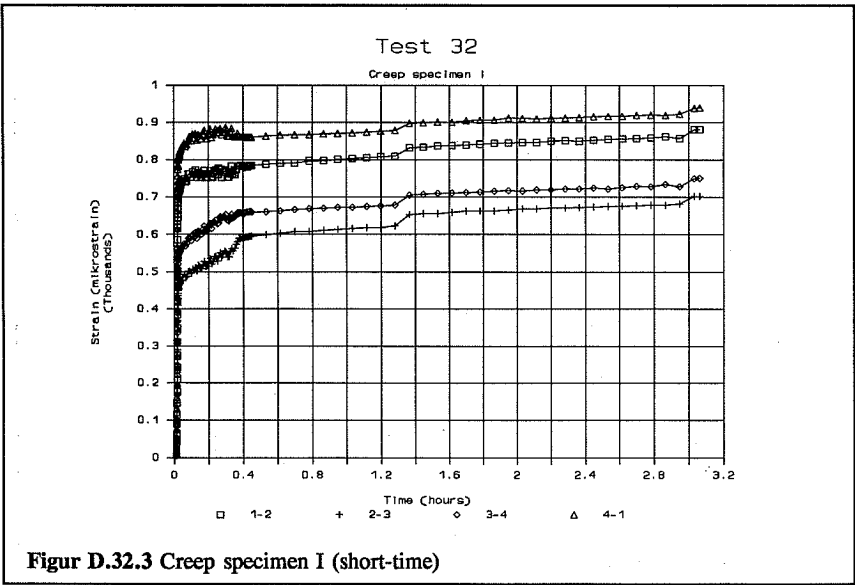
Figure D.31.12 Weightloss of shrinkage specimens (long-time)

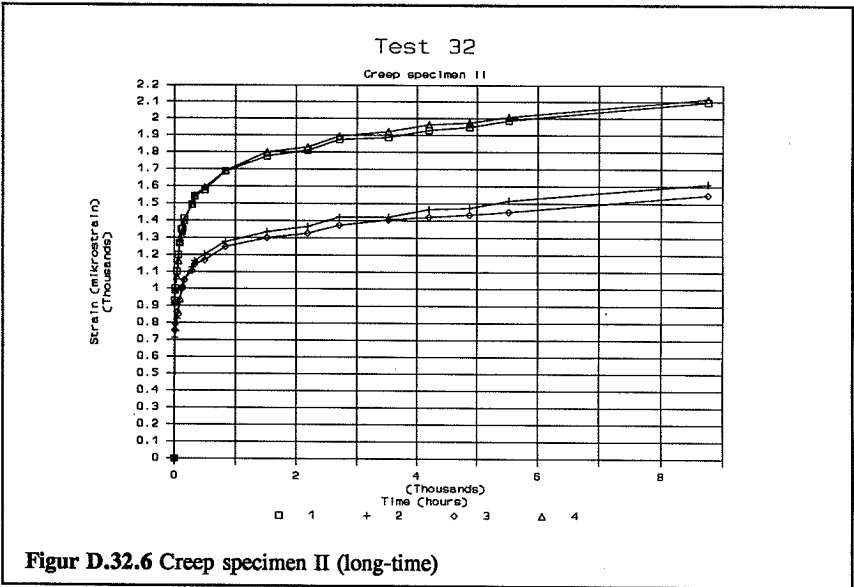
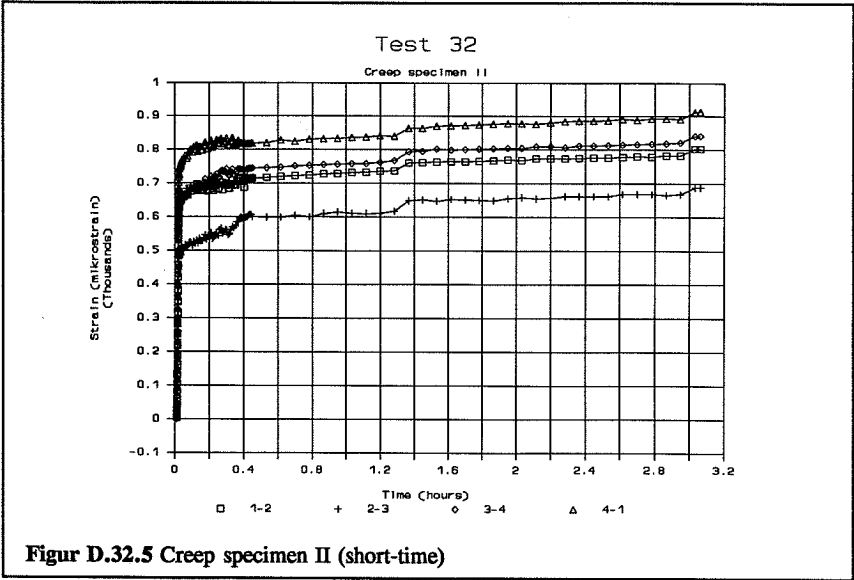


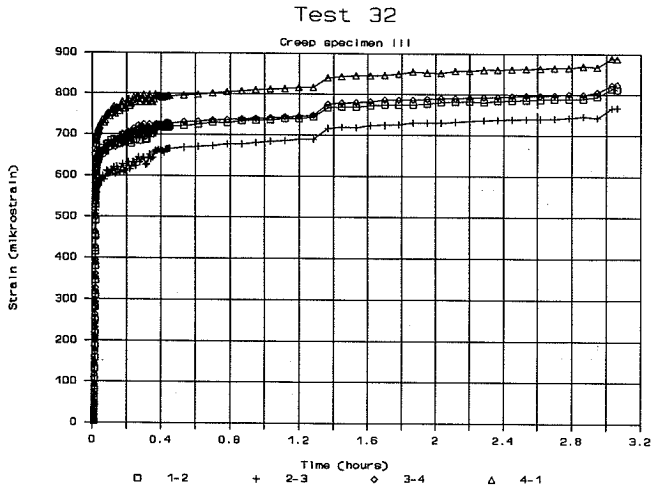
Figur D.32.1 Creep deformations (short-time)



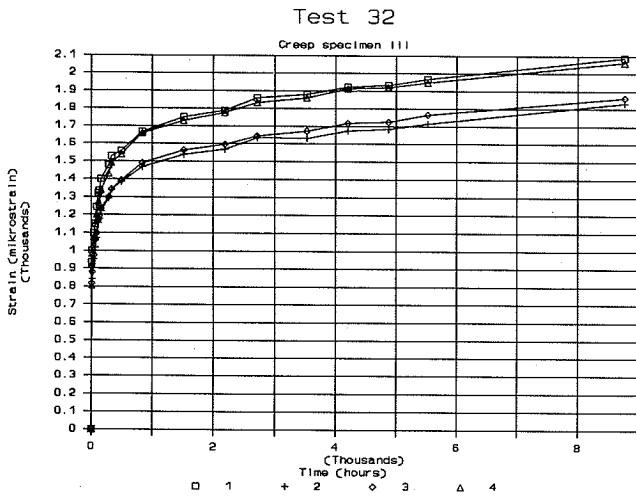
Figur D.32.2 Deformations (long-time)



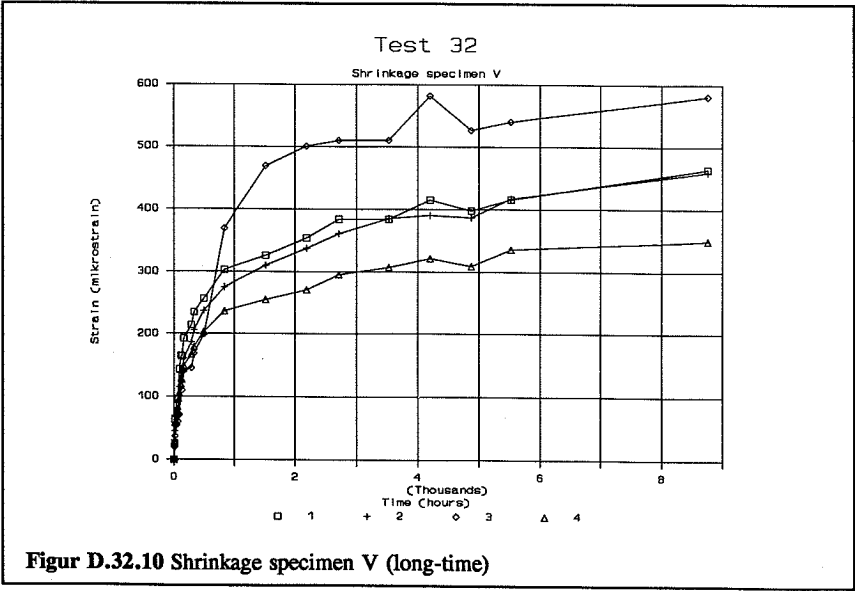
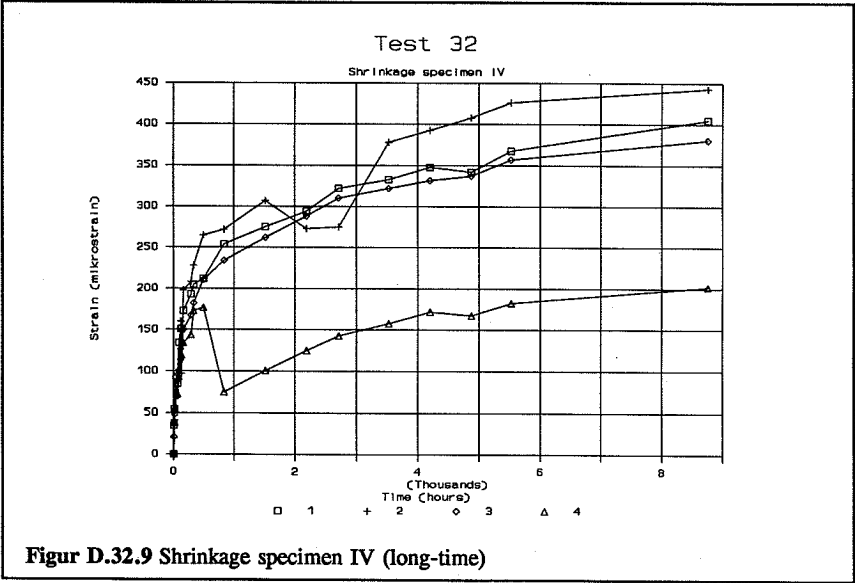


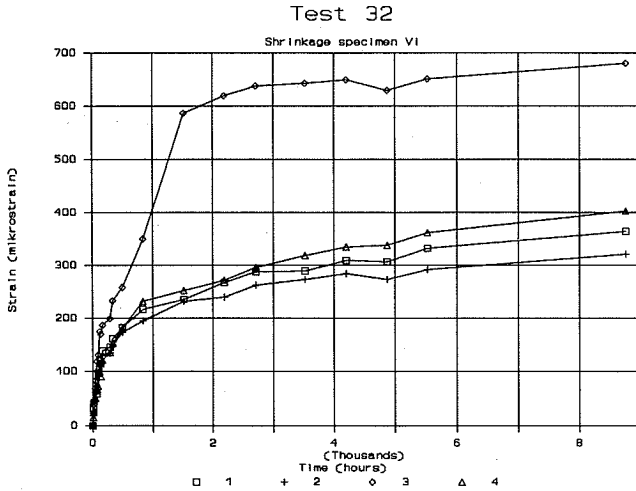


Figur D.32.7 Creep specimen III (short-time)

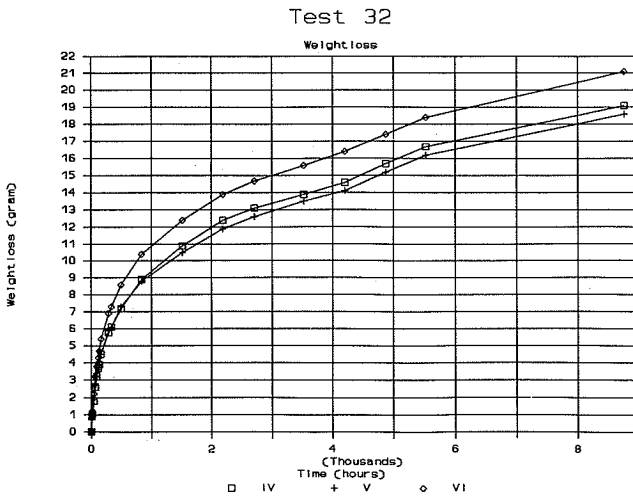


Figur D.32.8 Creep specimen III (long-time)

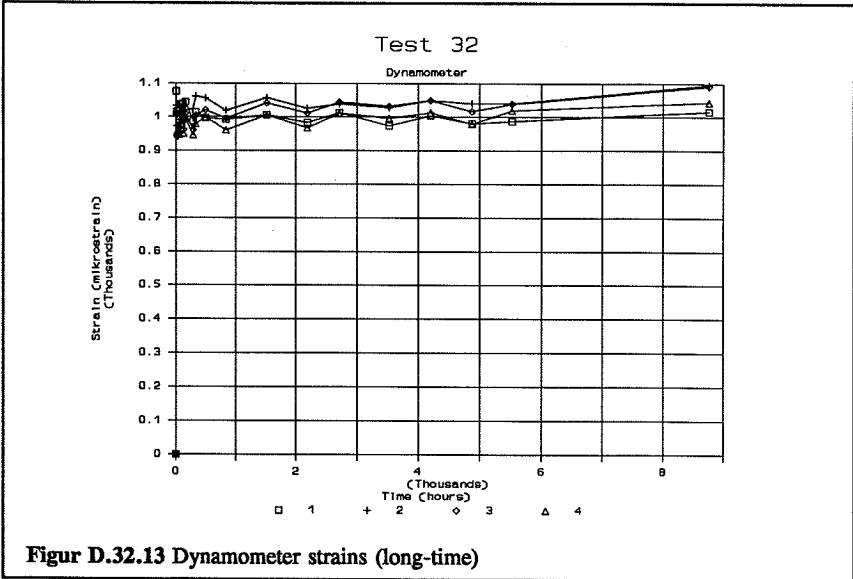


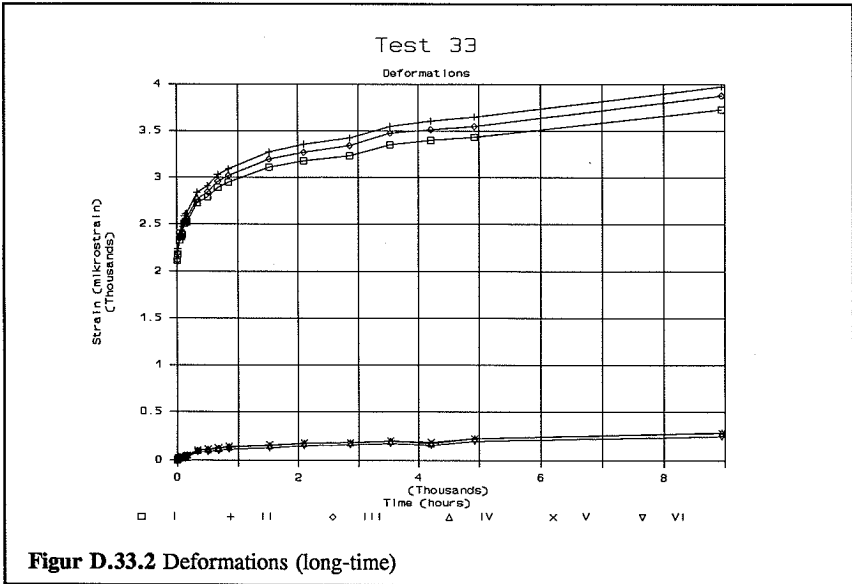
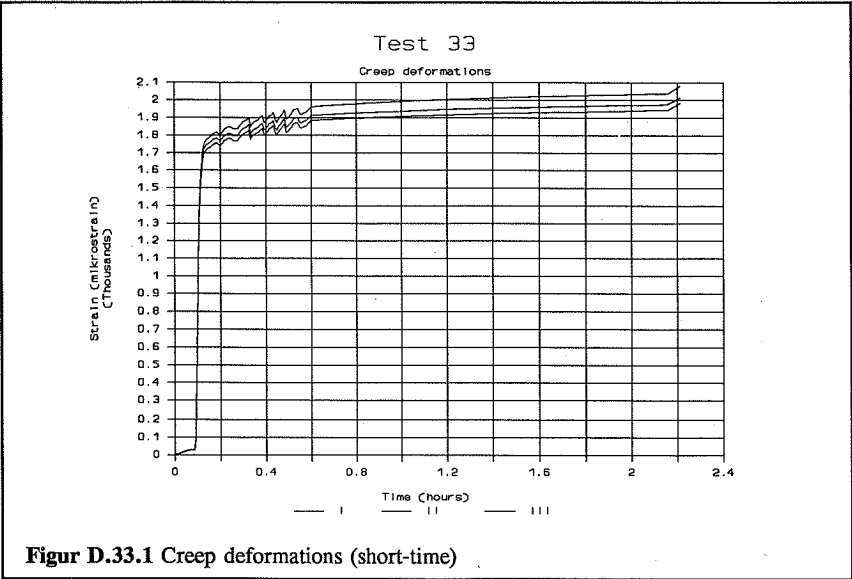


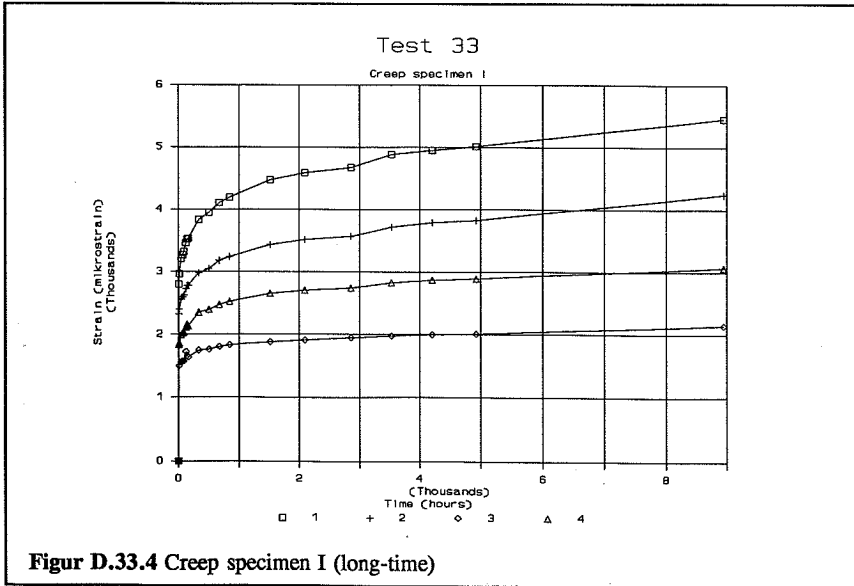
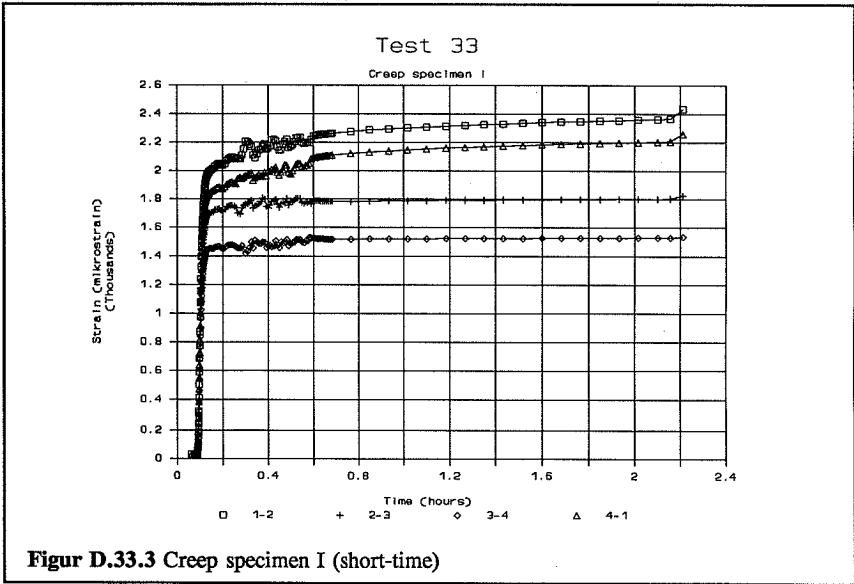
Figur D.32.11 Shrinkage specimen VI (long-time)



Figur D.32.12 Weightloss of shrinkage specimens (long-time)







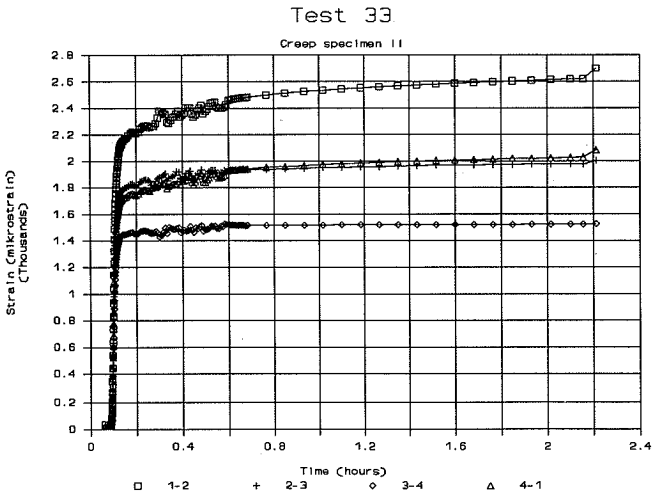


Figure D.33.5 Creep specimen II (short-time)

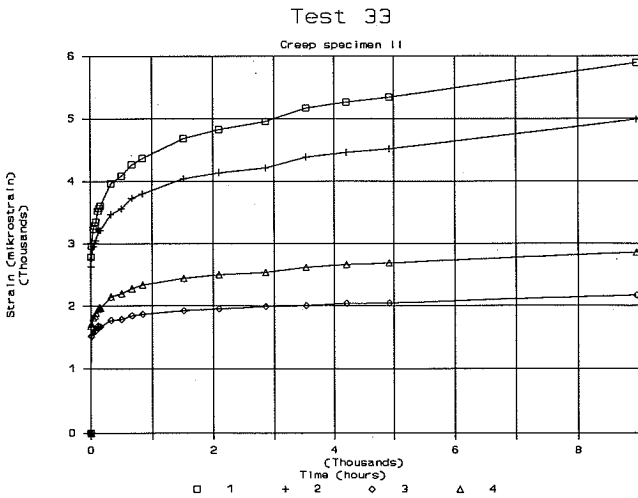
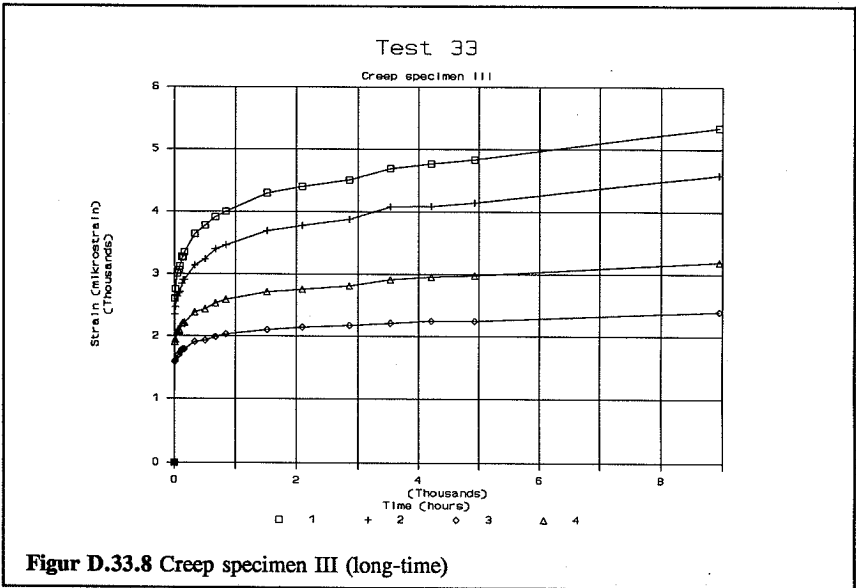
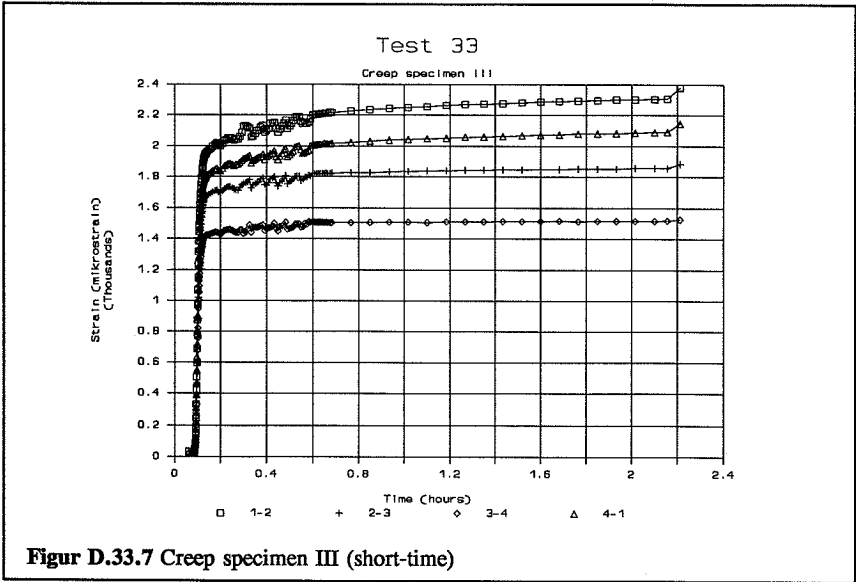
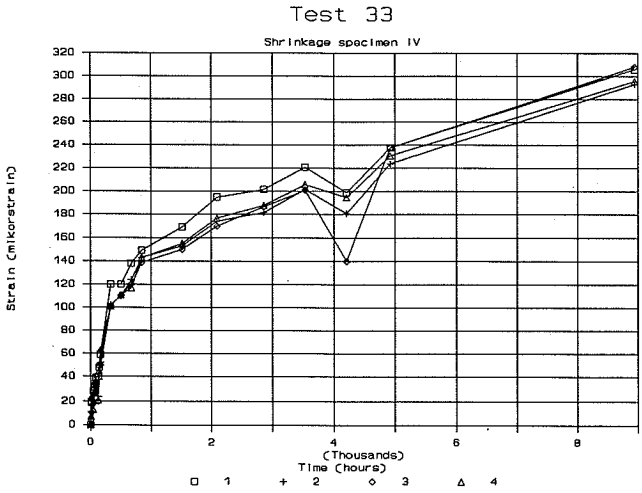
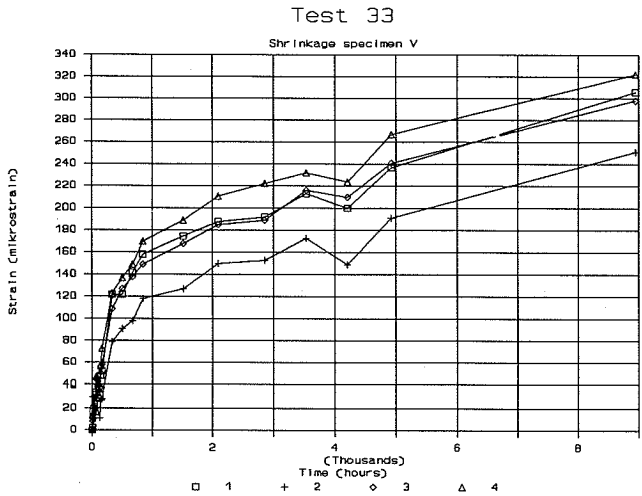


Figure D.33.6 Creep specimen II (long-time)

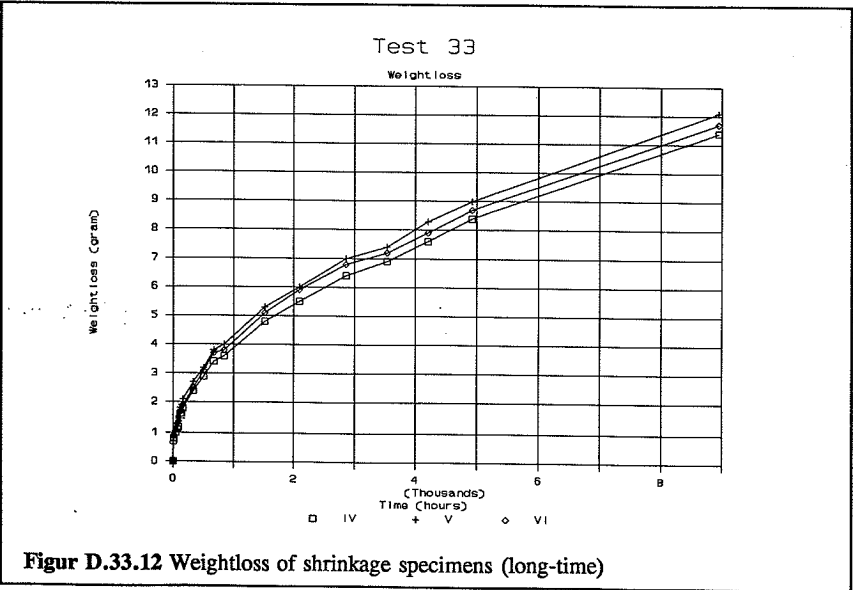
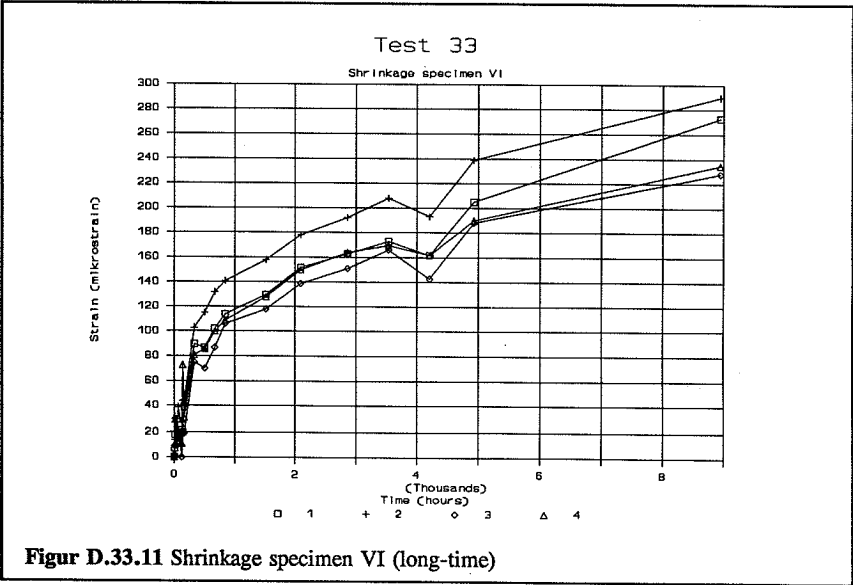


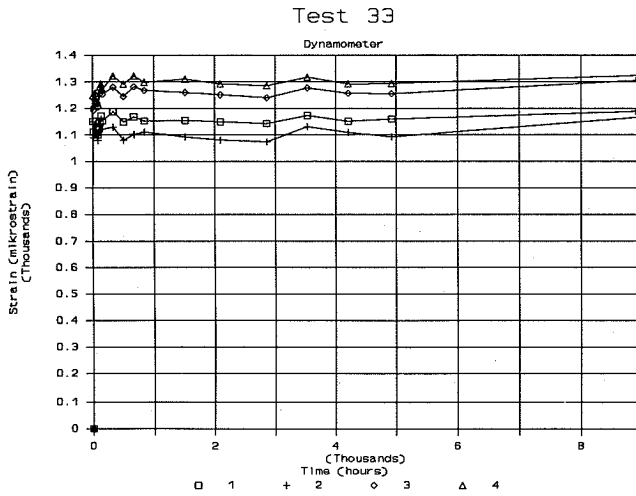


Figur D.33.9 Shrinkage specimen IV (long-time)

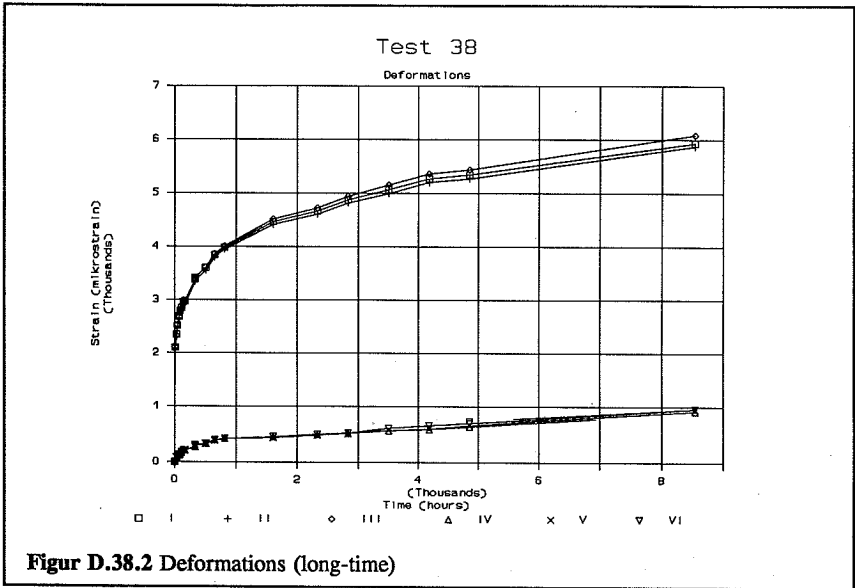
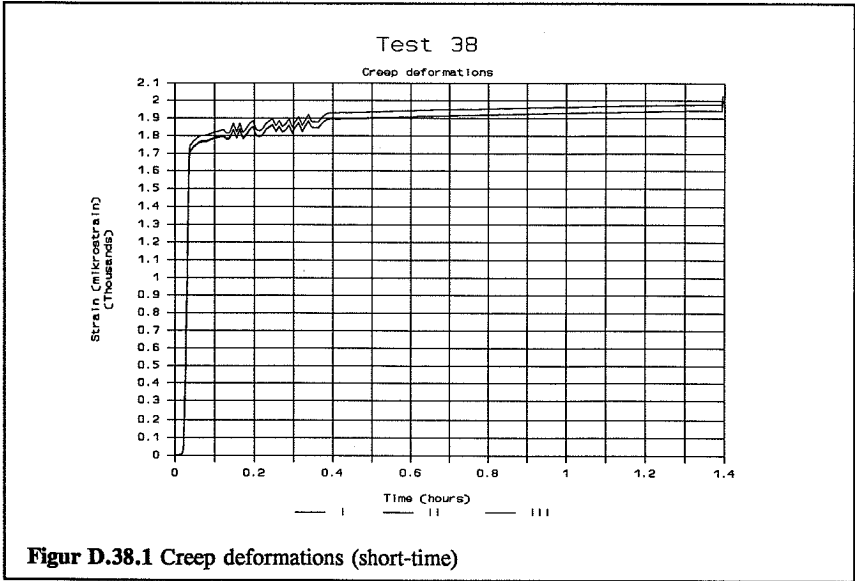


Figur D.33.10 Shrinkage specimen V (long-time)





Figur D.33.13 Dynamometer strains (long-time)



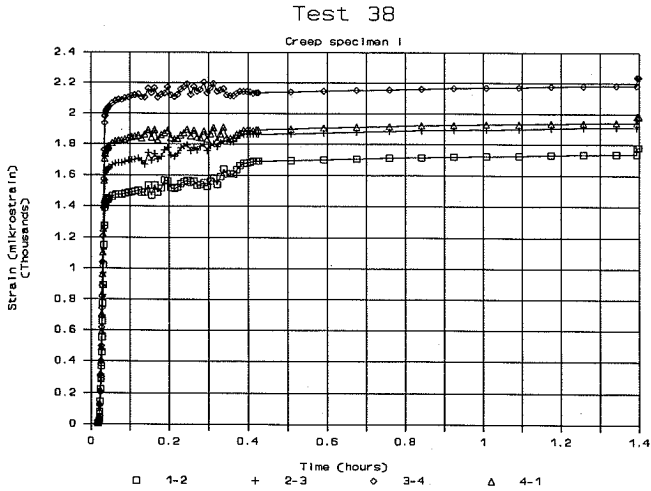


Figure D.38.3 Creep specimen I (short-time)

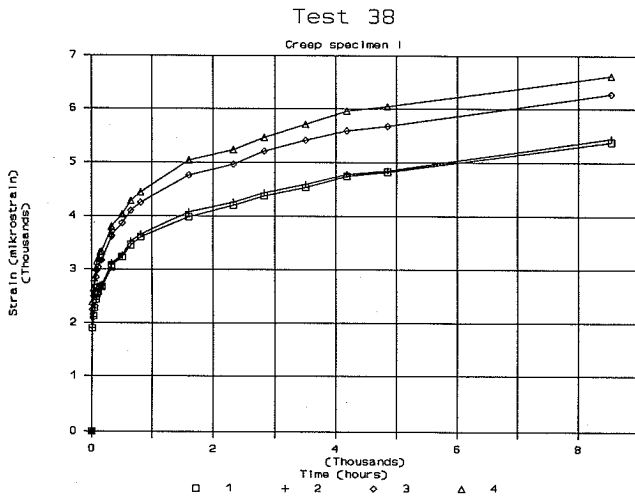
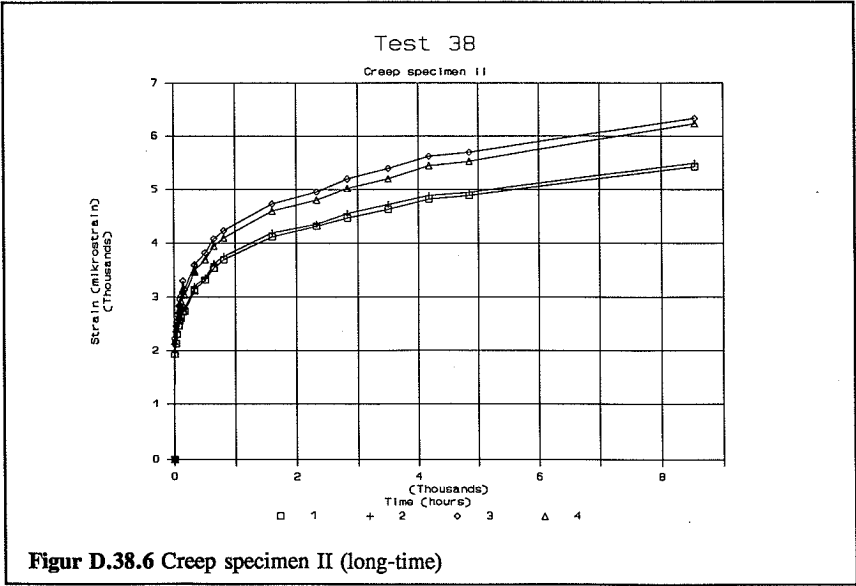
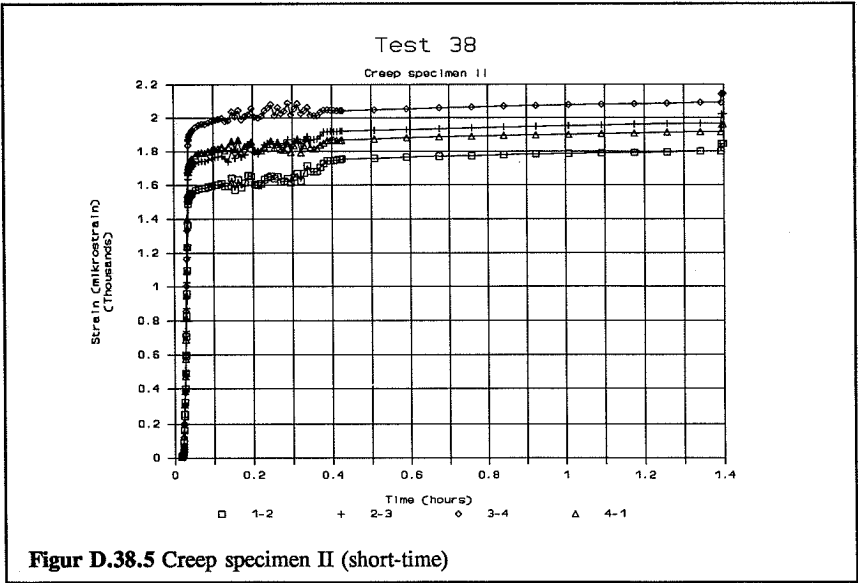
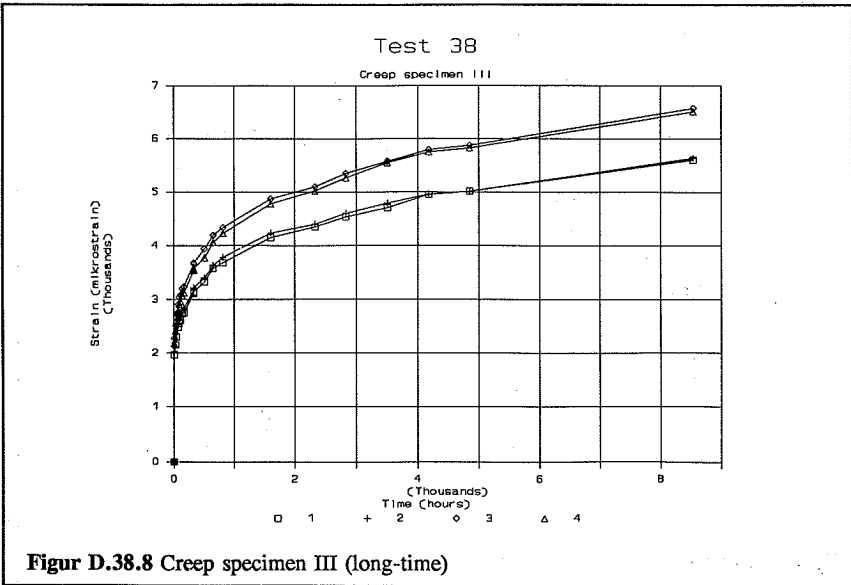
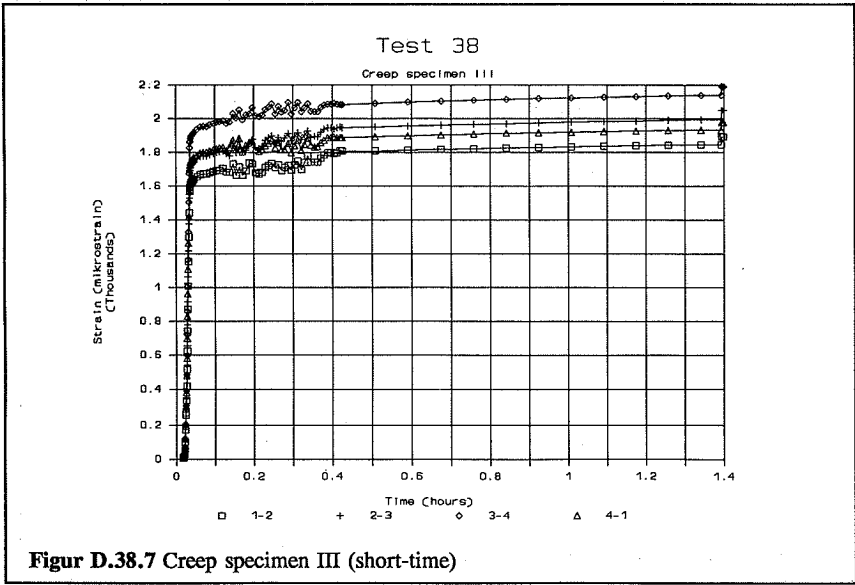


Figure D.38.4 Creep specimen I (long-time)





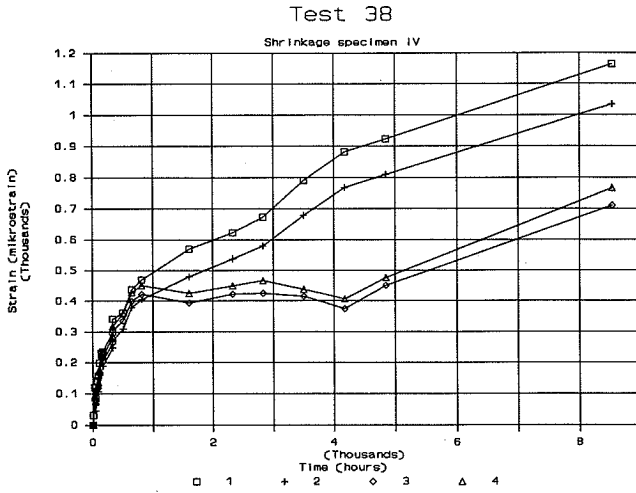


Figure D.38.9 Shrinkage specimen IV (long-time)

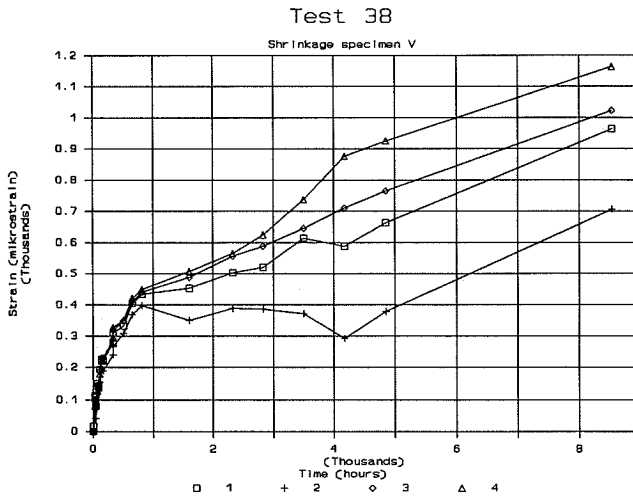
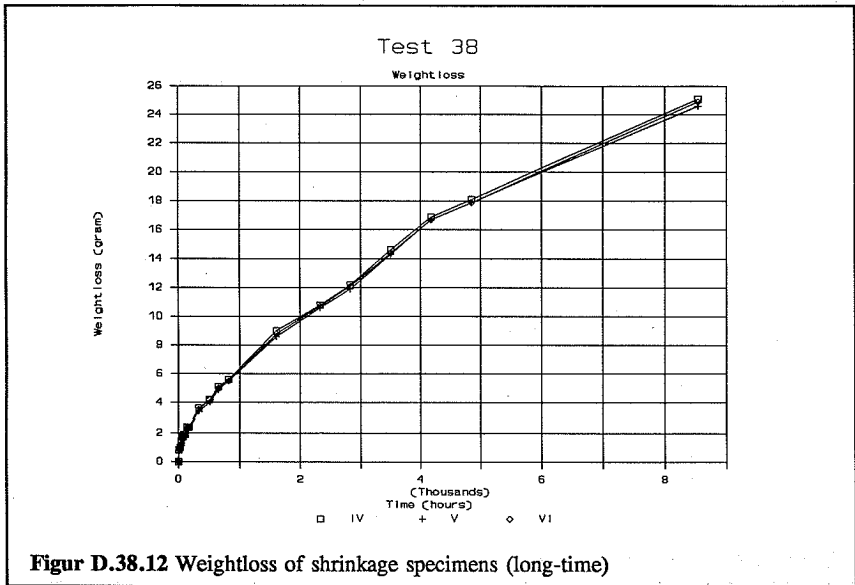
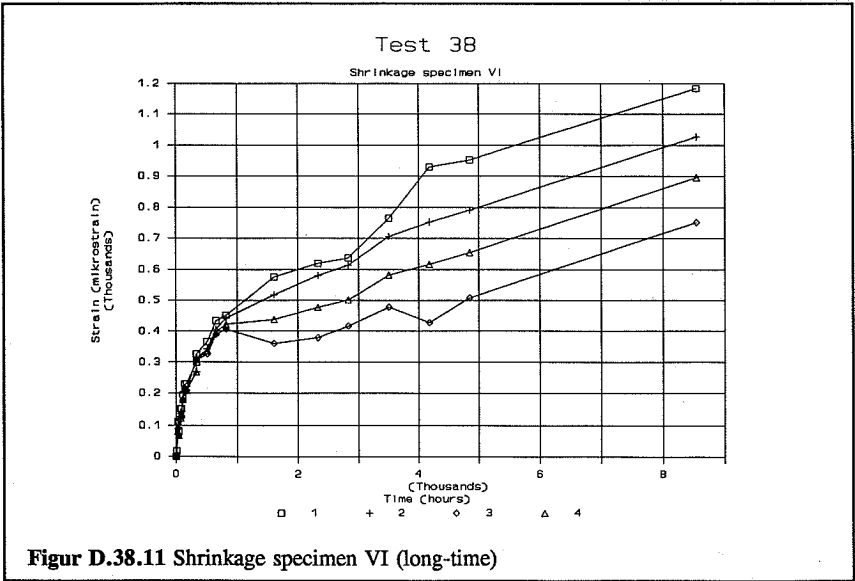
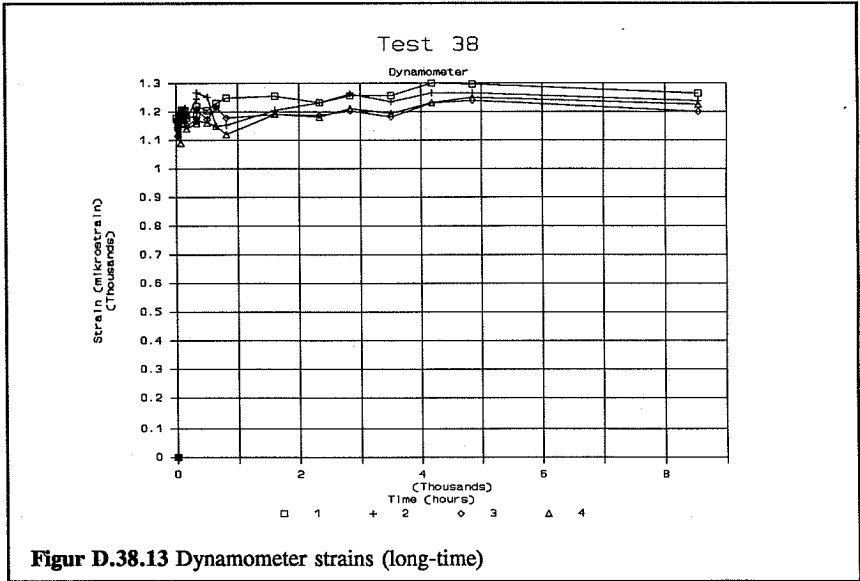
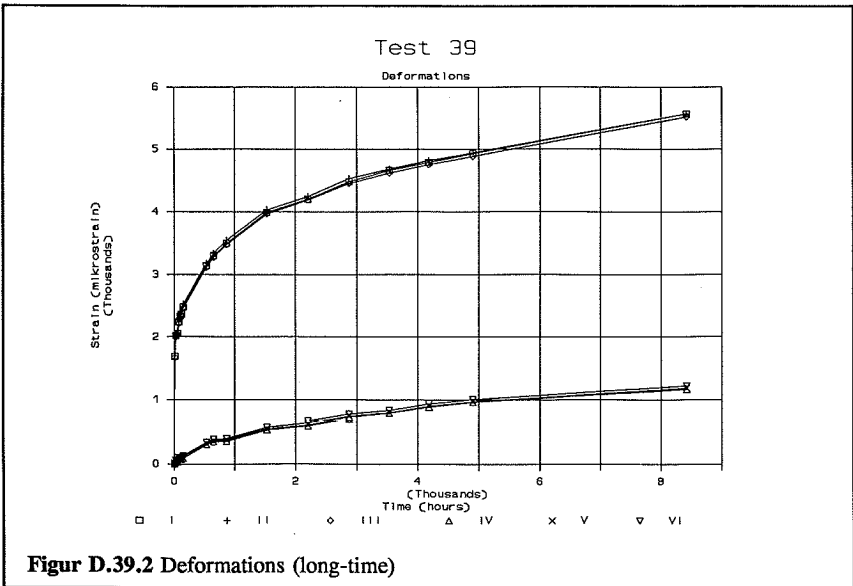
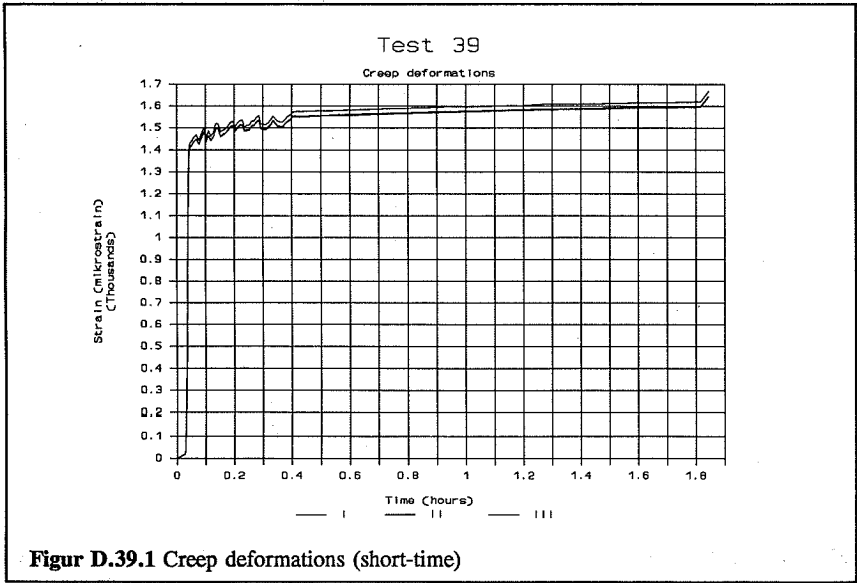
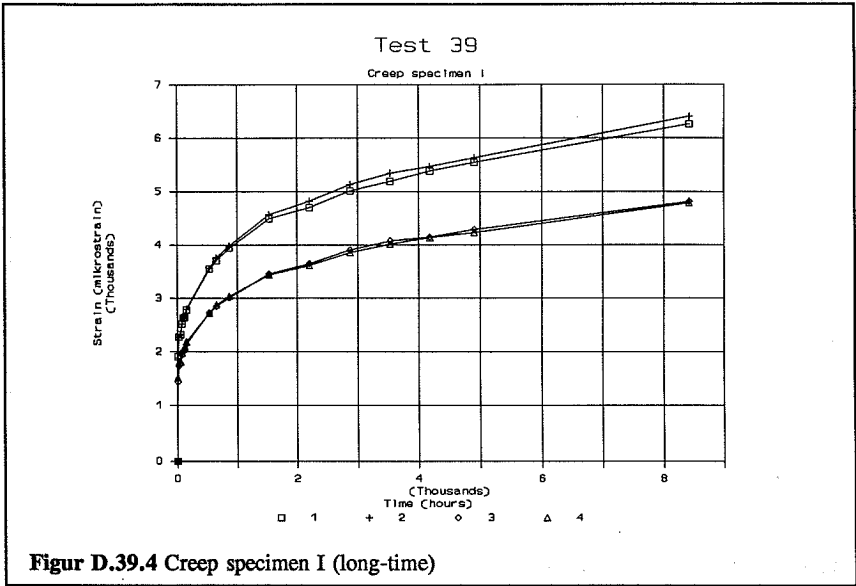
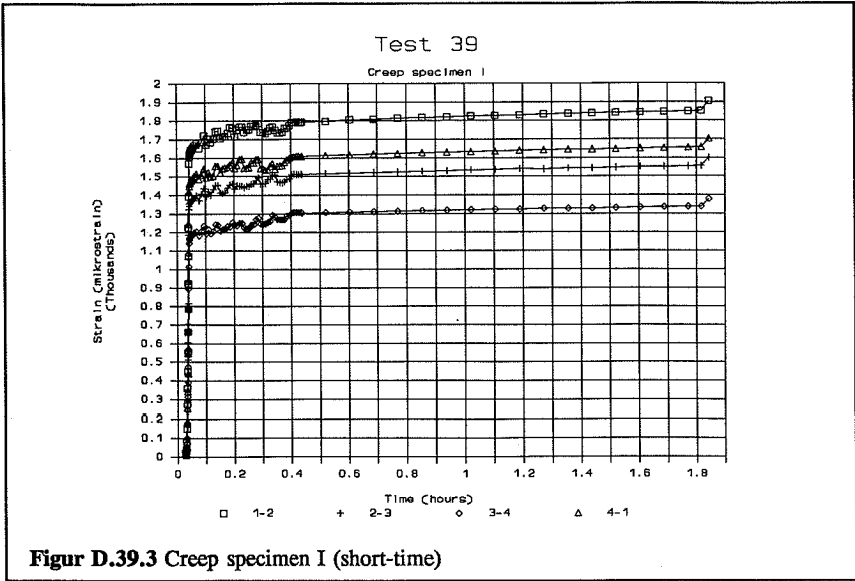


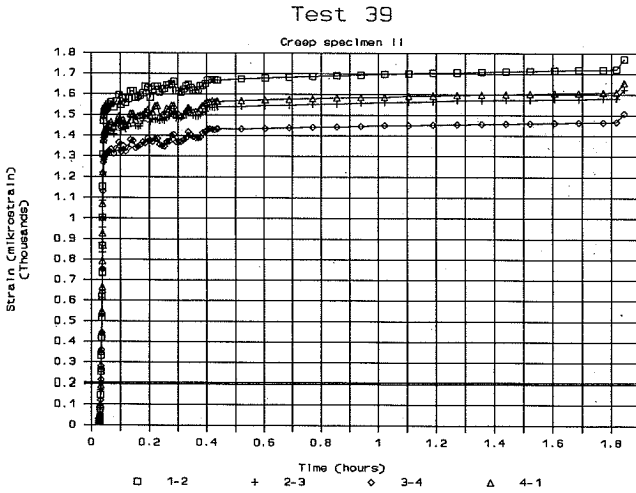
Figure D.38.10 Shrinkage specimen V (long-time)



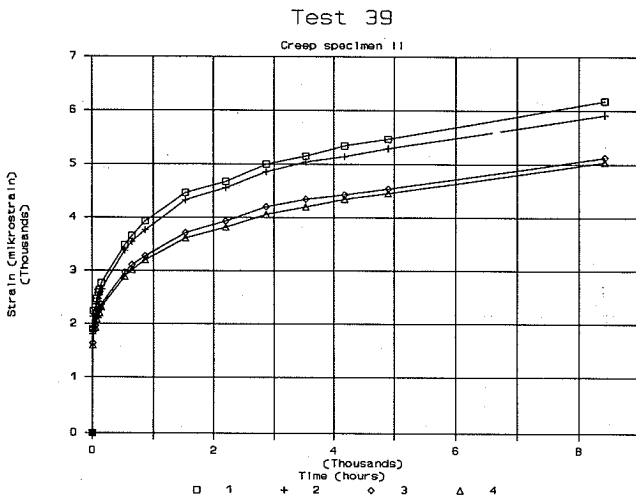




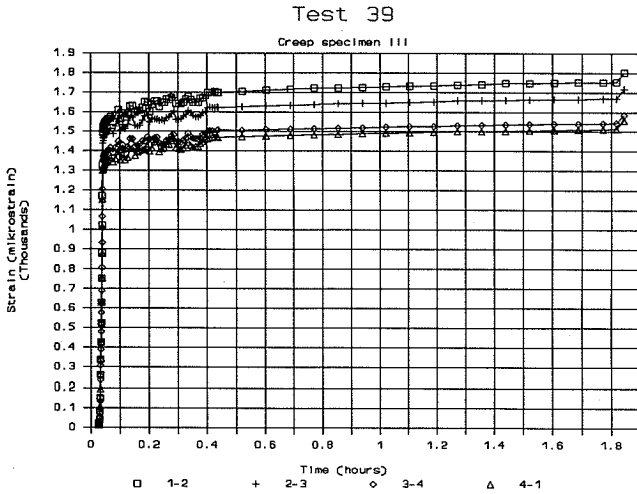




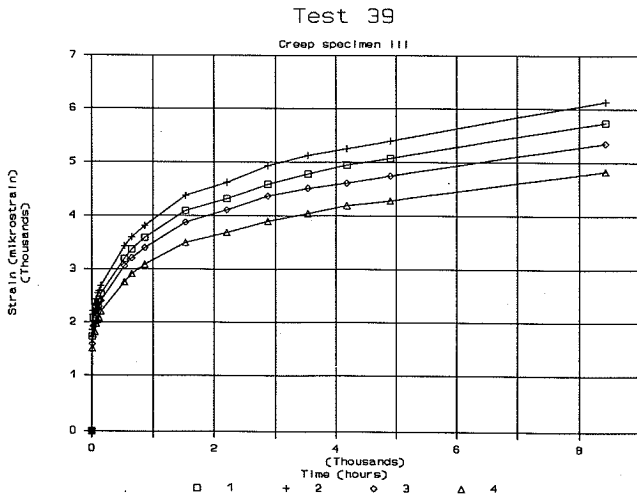
Figur D.39.5 Creep specimen II (short-time)



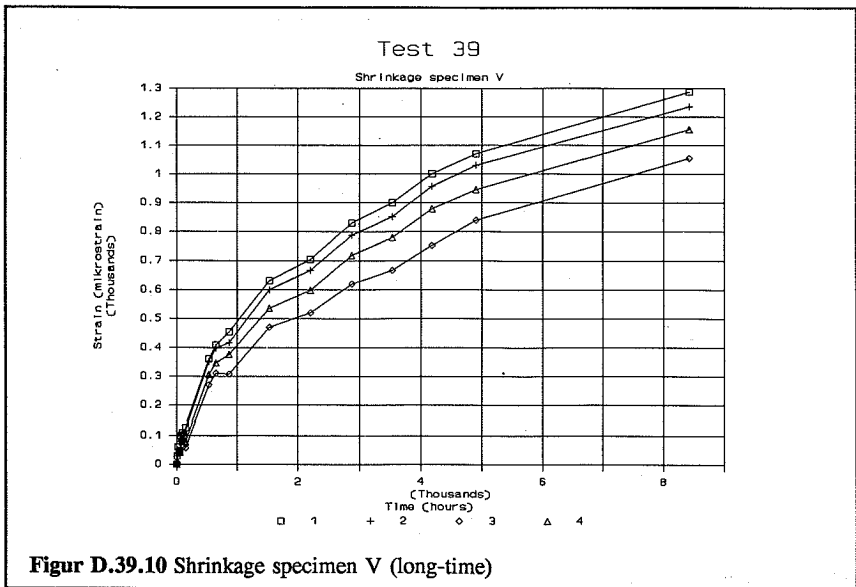
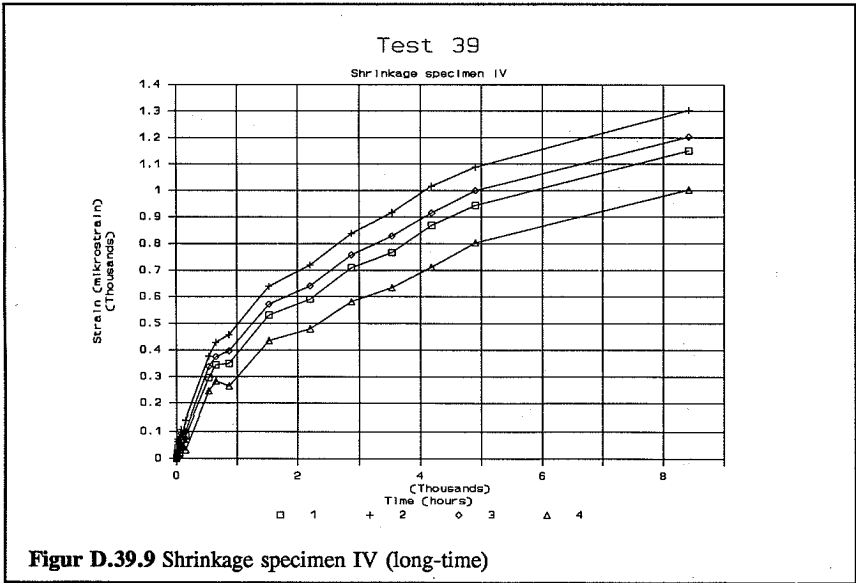
Figur D.39.6 Creep specimen II (long-time)

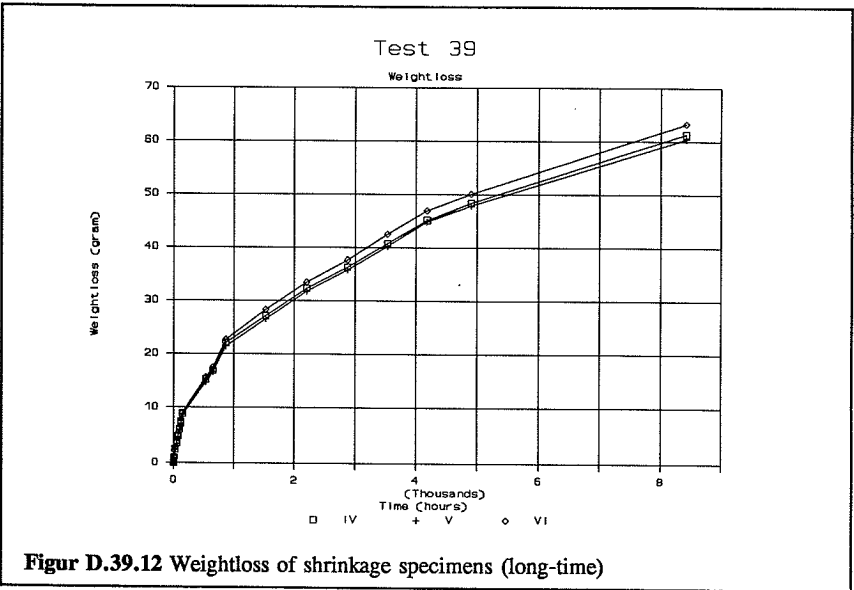
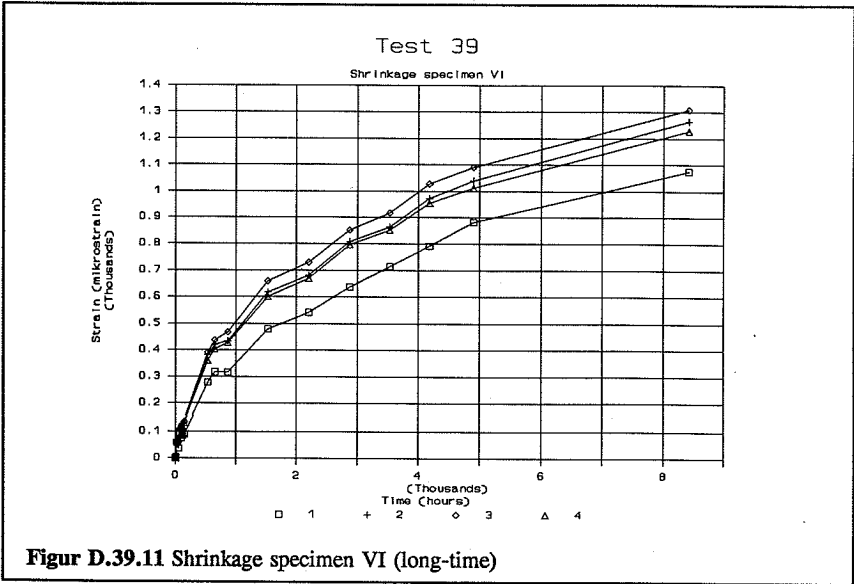


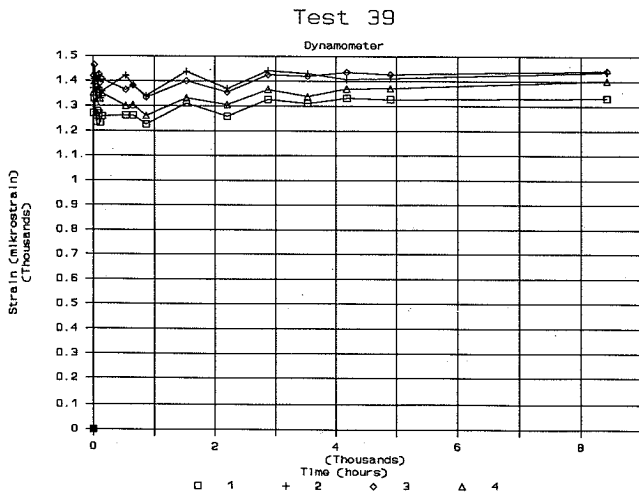
Figur D.39.7 Creep specimen III (short-time)



Figur D.39.8 Creep specimen III (long-time)







Figur D.39.13 Dynamometer strains (long-time)

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