# ISO/TS 17892-11:2004-10 (E)

## Geotechnical investigation and testing - Laboratory testing of soil - Part 11: Determination of permeability by constant and falling head

## Contents

Page


Foreword ..... vi

1 Scope ..... 1

2 Normative references ..... 1

3 Terms and definitions ..... 1

4 Test procedure ..... 2

5 Test results ..... 13

Bibliography ..... 16

Figures Figure 1 -- Water flow in a soil specimen ..... 1

Figure 2 -- Example for test arrangement for triaxial cell test ..... 3

Figure 3 -- Example for a test arrangement for constant head permeameter test ..... 5

Figure 4 -- Example for a test arrangement for compression permeameter test ..... 6

Figure 5 -- Apparatus for enclosing a specimen in a rubber membrane ..... 7

Tables Table 1 -- Back pressure as function of initial saturation ..... 3

Table 2 -- Correction factor to allow for the viscosity of water ..... 4

Table 3 -- Classes of permeability tests ..... 8

Table 4 -- Example for test arrangement as a function of soil type ..... 8