UTEST
MATERIAL TESTING EQUIPMENT

ROCK MECHANICS

Classification Tests

SLAKE DURABILITY INDEX

Product Code

UTR-0390 Slake Durability Apparatus
UTR-0392 Pair of Mesh Drums for UTR-0390

Models for 220-240V 50-60 Hz, 1ph.	UTR-0390-T
Models for 110-120V 60 Hz, 1ph.	UTR-0390-N
Models for 110-120V 60 Hz, 1ph.	UTR-0390-K

Standards

ASTM D4644

This test method has been developed to assess the deterioration of rocks over a period of time when subjected to water immersion. Slake durability is a simulated weathering test to determine abrasion resistance during wetting and drying cycles of shale and similar soft rocks as used in embankments and other construction-related applications.

Samples are alternately tumbled in mesh drums through a water medium and oven-dried for two cycles. The percent loss of mass is referred to as the slake durability index.

The UTR-0390 Slake Durability Apparatus consists of a motorized drive unit which is mounted on a baseplate and which can rotate two or four drums at a speed of 20 rpm. The tank assemblies are filled with water to a level 20 mm below the drum axis. The test drums are manufactured from 2.00 mm mesh, 140 mm dia. x 100 mm long.

Dimensions	350x1080x410 mm
Weight (approx.)	35 kg

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