

STANDARD: ASTM D4644

This equipment has been developed to assess the durability of rock to weakening and disintegration when subjected to the simulated effects of climatic slaking.

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 device rotates two drum-shaped sample boxes at a speed of 20 revolutions per minute through a motor fixed on the bottom of the device. The drum-shaped sample box is mounted on a bearing coated with lubricant, and there is no resistance when rotating. The drum-shaped sample box is made of corrosion-resistant materials and is equipped with two water tanks.



TECHNICAL PARAMETERS

Speed	20 rpm
Sieve tube	φ140*100mm
Standard sieve aperture	2mm
Water tank volume	200*170*160mm
Specimen specifications	40~60g each, 10 pieces in total
Dimensions	900*300*440mm
Power	220V, 60W

