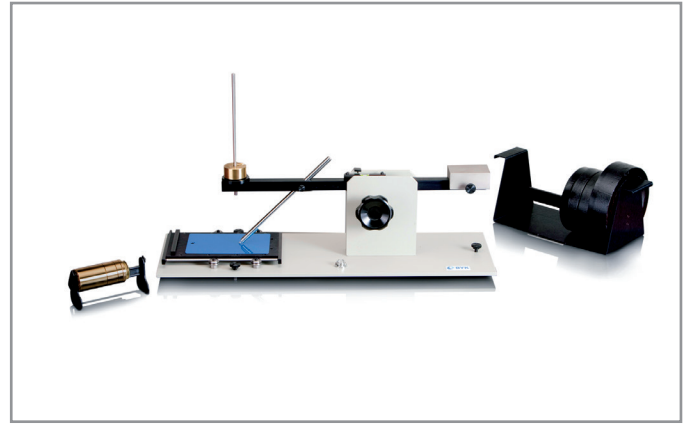


Balanced Beam Test

Used to perform scrape adhesion and mar resistance (scratch hardness) tests of coatings and surfaces of various materials.

- For differentiating the degree of adhesion of coatings to substrates
- Provides relative ratings for a series of coated panels

This instrument consists of a pivoted beam with a 45° stylus holder, weight post and holder for supporting the total test load mounted on one end. On the other end of the beam is a counterweight. A cam is rotated to lower and raise the stylus and a sample bed mounted on ball bearings is used to move the test panel against the stationary stylus.

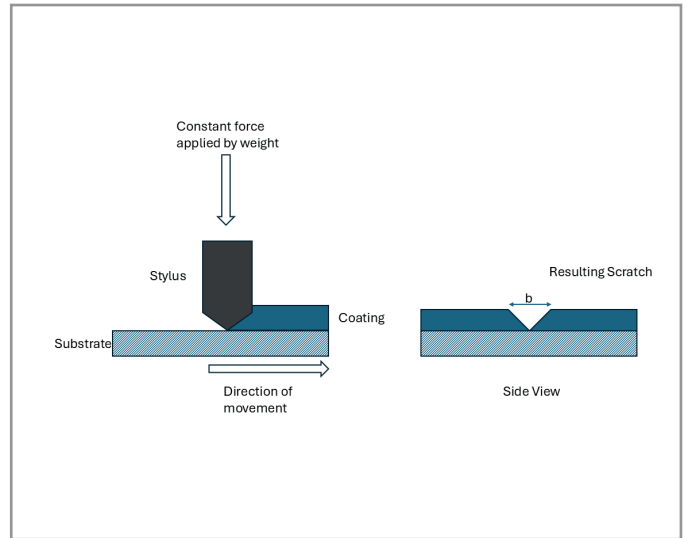


Scrape Adhesion Test

The stylus used for scrape adhesion is a 1.6 mm (0.0625 inch) drill rod, bent to a 180° loop with 6.5 mm (0.256 inch) OD, hardened, buffed and chrome plated. Supplied with the tester is a set of twelve slotted weights with storage rack. In the adhesion test, weights are applied in 0.5 kg increments to a maximum of 10 kg. By moving a free edge of the test film against the loop stylus under variable load expressed in grams, scrape adhesion resistance is the minimum load required to cut through the film to the substrate.

Mar Resistance Test

The mar test is similar to the scrape adhesion procedure. The loop stylus is placed directly onto test film surface under a starting load. Weight is added until mar is observed. Mar resistance is the ability of the coating to resist surface damage under mechanical force.



Standards

ASTM D2197
ASTM D2248
ASTM D2454
ASTM D5178

Catalog Number	5780
Short Description	Balanced Beam Adhesion/Mar Tester
Weight	23.1 kg
	51 lb
Dimensions: L x W x H	61 x 20 x 38 cm
	24 x 8 x 15 in

Delivery Content

Tester
Loop stylus (5781)
Needle stylus (5782)
Weight post and holder
Weight rack and set of 12 weights:
6977 (1 x 10g, 2 x 20g, 1 x 50g, 1 x 100g, 2 x 200g, 1 x 500g), 6972 (1 x 1000g), 2 x 6974 (2 x 2000g), 6976 (1 x 5000g)
Manual

Catalog Number	Short Description	Delivery Content
5781	Loop Stylus	
5782	Needle Stylus	
5783	Rod Stylus	
5784	Ball Point 1/8 in	
5785	Ball Point 1/16 in	
5786	Spit stylus	
5787	Stylus Holder	
6977	Weight Set	8 weights (1x 10g; 2x 20g; 1x 50g; 1x 100g; 2x 200g; 1x 500g)
6972	Weight 1000 g	
6974	Weight 2000 g	
6976	Weight 5000 g	
1611	Hoffman Scratching Tool	
15030	Coin Holder, for Adhesion/Mar Tester	