

Adhesion or Cohesion Strength of Thermal Spray Coatings

The purpose of this test is to determine the degree of adhesion or bonding strength of a coating to a substrate or the cohesion strength of the coating in a tension normal to the surface.

Coat one face of a substrate fixture, bond to the face of a loading fixture, and subject assembly of coating and fixtures to a tensile load normal to the plane of the coating.

Requirements

- Control test machine from 0.03 to 0.05 ipm
- Tensile mode
- Capture the Peak Load
- Self aligning adapters per standard
- Requires Steel circular fixtures – 1 inch diameter

Recommendation

- GS545 Fixtures
- Optional MStat software to generate test reports.

Machine Capacity required at test speed

Model	Force Available	Maximum Stress
5kM	6600 Pounds	8,000 psi
11kM	13,200 Pounds	16,000 psi

