

Technical data sheet

EN130624GB

Thermal spraying solid wire WA SPRAY CuAl9-TS



CLASSIFICATION

EN ISO 14919: 4.6 - 1.6 - 1

DESCRIPTION

- Solid wire specifically designed for thermal spraying by using arc wire spray process
- Aluminium bronze alloy wire dedicated to element restoration
- Good corrosion and mechanical resistance
- Excellent bonding properties
- Highly compact deposit
- High deposition rate

APPLICATIONS

HARDSPRAY CuAl9-TS is mainly used for component restoration jobs subject to corrosion with mechanical and thermal fatigue

Examples:

Bearing, Aluminium bronze components, bond coating, etc

TYPICAL DEPOSIT ANALYSIS

Al	Cu
9	Bal.

TYPICAL DEPOSIT PHYSICAL AND MECHANICAL PROPERTIES

As-sprayed hardness: 100 - 130 HV / (60 - 70 HRB)
Melting point: 1050 °C
Bond strength: 40 MPa @ 20 mils
Coating density: 7.0 g/cm³

TYPICAL ARC WIRE SPRAY PARAMETERS (1.6 mm wire)

Arc load voltage: 30 V
Intensity: 150 A
Standoff distance: 100 mm
Air pressure: 3.5 bar
Spraying rate: 4.0 kg/hour
Other parameters according to equipment

STANDARD DIAMETERS (mm)

Diameters: 1.6 mm
Other diameters: please consult us

PACKAGING

Diameter	1.6 mm
Spool type	BS 300
Weight	15 kg

Other packaging: please consult us