



Commercial Powder

Metal Group – **ALUMINUM**
Catalogue No. – **SST-A0017**



Description:

A special size distribution blend of pure aluminum, it is characterized by high deposition efficiency and fast build-up capabilities. Adhesion is minimum **4250 psi bonding strength**. Typical hardness is **HB: 30-34**. It is ideal for corrosion protection.

Specifications:

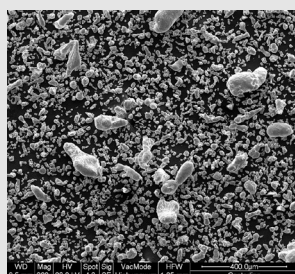
Material Properties

Composition:	Al 99.5% min.
Particle Size:	-150 to +5 µm
Characteristics:	Irregular shaped particles for maximum velocity.

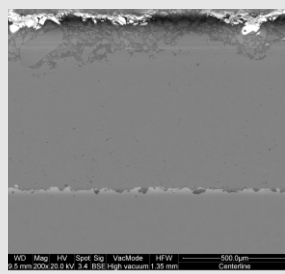
Typical Coating Properties

Bond Strength:	4250 psi
Deposition Efficiency:	Up to 24%
Hardness (Brinell):	30 – 34
Porosity (vol / vol):	< 0.5%

Typical Micrograph



A0017 Powder



A0017 Coating on Steel

Recommended Spray Parameters

(When utilizing CenterLine Cold Spray equipment. Recommendations may not apply when making use of non-CenterLine equipment)

Temperature:	250 – 350°C
Pressure:	100 – 250 psi
Standoff Distance:	10 – 25 mm
Gas:	Compressed air or nitrogen
Feed Rate (gram/min.):	12 – 15
Gun Traverse Speed:	40 mm/s for a 20 mil coating per pass
Surface Preparation:	SST-G0002 commercial blast
Spray Nozzle:	UltiFlow™

Ordering

Catalogue Number:	SST-A0017
Standard Packaging:	400 ml or 1 gallon sized container
Selling Unit:	Pound

To discuss your Cold Spray Application(s) or for more information about powders and blends, please contact your CenterLine SST representative or visit our website at www.supersonicspray.com.