

STAINLESS STEEL 316L FLAKE

TECHNICAL DATASHEET



SPECIALTY METAL ATOMIZED POWDERS

STAINLESS STEEL FLAKE

AMETEK Specialty Metal Products (SMP) Stainless Steel Flake is produced utilizing type 316L stainless steel powder from our advanced water atomization process. AMETEK SMP employs a unique milling process to flatten each particle to convert them to flake. The flake particles offer a high specular reflectance ideally suited for high-performance protective paints and decorative coatings.

APPLICATIONS

- **Maintenance Coatings:** Corrosion protection for food processing plants, and equipment exposed to extreme elements.
- **Powder Coatings:** Automotive trim, wheels, and under the hood parts. Outdoor furniture and bicycles.
- **Architectural Coatings:** Provides a stainless steel look to masonry and exposed metal.
- **Cookware Coatings:** Promotes abrasion resistance and heat transfer in non-stick coatings.

THE ADVANTAGES OF 316L STAINLESS STEEL

This premium quality stainless steel combines excellent corrosion resistance with outstanding abrasion resistance and toughness. Not only does it resist salt spray and acid spotting, but it is also unaffected by strong alkaline cleaners and detergents. It will not chalk or tarnish.

SOLVENT SYSTEMS

Leafing pigments are capable of concentrating at the surface of a paint film, where particles overlap each other, creating a metallic appearance.

WATER-BORNE SYSTEMS

Stainless steel flake is particularly useful because it will not form hydrogen when incorporated into water-borne coatings and consequently will not cause gassing.

TYPICAL FLAKE PROPERTIES

PRODUCT	PARTICLE SIZE	APPARENT DENSITY	FLAKE THICKNESS
Fine Leafing	>75% -45 μm	0.6-1.2 g/cc	0.6-1.2 μm
Standard Leafing	>70% +45 μm	>0.8 g/cc	>0.5 μm



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