



SUNOLOY® HC-Coating Series

(for alloys of aluminum)

Description

Sunoloy® HC-Coating Series are unique, proprietary interfusions for hardcoat anodizing. Combining a layer of ceramic oxide formed by electro/chemical conversion of the aluminum surface with high release and lubricating materials creates a “synergistic” effect for a wide variety of practical applications. Protection from wear or corrosion is outstanding. Surface energies remain the lowest attainable. Bonds are integral with the base material, which means the coatings do not chip, crack, flake, or peel.

Typical Properties

- Typical Surface Growth: 0.001 inch \pm 0.0003
(Total Coating Thickness, including penetration of aluminum, is 0.002 inch \pm 0.0006)
- Typical Hardness: 62-65 (Rockwell C)
- Deposition Temperature: 200°F to 750°F
- Service Temperature:-250°F to 550°F
(Some Sunoloy® HC Coatings will perform to 800°F)
- Release (Non-Stick): High
- Friction (Static/Dynamic): 0.04-0.10*
- Friction is a system-dependent parameter, a function of load and mass, distance and rate of travel, hardness, base material, surface finish, counter-surface, temperature, and other factors.

Advantages

Extend tool life • Ease in cleaning • Improve quality • Reduce downtime
Lower maintenance • Avoid secondary operations • And more

Industries Used

Plastics • Forming • Guides • Molding • Thermoforming
Hot Plate Welding • Heat Sealing • Food Processing
Packaging • Medical • Automation • Industrial • And More



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