

BONDERITE S-FN 309 ACHESON

DRYFILM COATING

(KNOWN AS EMRALON 309)

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Description:

BONDERITE S-FN 309 ACHESON (known as EMRALON 309) is a concentrated dispersion of PTFE fluorocarbon resin in an isopropyl alcohol carrier. **BONDERITE S-FN 309 ACHESON (known as EMRALON 309)** is designed to provide a fast-drying, low-friction coating when diluted or compounded as a lubricant. It provides good adhesion to many substrates including: wood, metal, rubber, plastic and glass. Moving parts wear longer, work harder and need less maintenance when coated with this product. As a “friction modifier” additive, it is conducive to most aerosol or coating formulations and can be applied by virtually all types of application methods.

FEATURES**BENEFITS**

Stable colloidal suspension of PTFE	Minimal mixing costs for blending into your finished lubricant
Fine particle size distribution	Provides cost-effective usage in finished lubricant to provide superior lubrication performance, consumer confidence and repeat sales
Lubricating, low friction PTFE particles	Superior lubrication extends equipment life, reduces lubricant intervals and reduces maintenance costs
White, translucent color	Addresses consumer perception of clean lubrication, driving revenue with your formulated product
Robust chemical and propellant compatibility	Minimizes formulation costs for achieving stable and effective product

TYPICAL APPLICATIONS

- Lubricant aerosol component
- Sealed systems
- Piano action parts
- Tools
- Solenoid plungers
- Storage bins
- Window guides



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- Moving parts (wood, metal, fabric, plastic, rubber)

Physical Properties:

Lubricating solid	:	PTFE
Carrier	:	anhydrous isopropyl alcohol
Viscosity	:	25-50 mPa·s @ 25°C (77°F) typical
Solids content	:	20% PTFE
Particle size	:	90% 2-4 microns by volume
Density	:	0.923 kg/l (7.7 lb/gal) @ 25°C (77°F)
Flash point	:	11.7°C (53°F)
Color	:	translucent white
VOC	:	683 g/l (reduced VOC 764 g/l)
Coverage	:	8.1 m ² /l @ 12.7 microns (330 ft ² /gal @ 0.5 mil)

Method of Use:**Surface Preparation**

Prior to applying **BONDERITE S-FN 309 ACHESON (known as EMRALON 309)** the substrates to be coated should be clean, dry, and free of all contaminants and residues, such as dirt, grease, powder. A solvent wipe or vapor degreasing and air dry is usually sufficient; however, sandblasting, phosphating or chemical etching will generally increase adhesion and wear properties.

Mixing and Dilution

BONDERITE S-FN 309 ACHESON (known as EMRALON 309) is supplied in concentrated form. Agitate the concentrate to ensure uniform consistency. Continue stirring and slowly add the diluent. A dilution ratio of 1:3 (product:diluent) is suggested for initial evaluation. The best ratio for performance and economy is determined at the point of use.

Note: A small amount of soft settling of the larger particles may occur during long periods of storage. Mild agitation will restore these particles back into suspension.

Application

Diluted **BONDERITE S-FN 309 ACHESON (known as EMRALON 309)** can be applied by conventional spray, brush, dip, or roller methods. Spraying provides the most uniform coverage of this product. Typical film thicknesses range from 0.2 to 0.5 mils. Always agitate thoroughly just before using the diluted **BONDERITE S-FN 309 ACHESON (known as EMRALON 309)**. Application during periods of high humidity may increase opacity or blush; exposure to strong sunlight may cause darkening.

Storage

Keep container closed when not in use to avoid contamination. See **Handling** Henkel Material Safety Data Sheet for proper first aid instructions. Shelf life is 12 months from date of qualification under original seal.

Flammable. Keep away from heat, sparks, and open flame. May be harmful if swallowed, inhaled, or absorbed through skin. May cause eye irritation. An adequately ventilated spray booth is recommended. Wash thoroughly after handling.



BONDERITE S-FN 309 ACHESON DRYFILM COATING (KNOWN AS EMRALON 309)

Keep container tightly closed when not in use to avoid evaporation and contamination. (Refer to Henkel Material Safety Data Sheet for current safety and first aid procedures).

Application Assistance

Henkel's Application Specialists are available to assist you in production start-up with S-FN 309 ACHESON (known as EMRALON 309). Visit our website www.henkelna.com/metals for more information and for the Henkel global location nearest you.

Health and Safety

Please consult Material Safety Data Sheet

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