



PRODUCT BULLETIN:

AP-5 Cold End Coating

Description:

AP-5 is a proprietary blend of tall oil fatty acids used to coat newly formed glassware at 250-300 F (121-149 C) for enhanced lubricity. AP-5 is a totally non-animal product of uniform composition that has exceptional purity and a low odor level. It is water-white in color and dries completely clear. The product is food grade under the various sections of the United States Code of Federal Regulations (21 CFR 172.862) and is approved for human consumption. The product is also Kosher.

Physical Characteristics:

Base:	Blended Fatty Acids from tall oil
Active %:	99.5%
Specific Gravity:	0.888kg/L (7.40lb/gal)
Acid No.:	196-204
Boiling Point:	212 F, (100 C)
Flash Point:	372 F, (189 C)
Vapor Pressure:	1mm Hg @20 F, (-7C)
Visual:	Water clear; Gardner 2.2
Odor:	Minimal
Water Content:	0.4%
Saponification Number:	196 - 206
Unsaponifiables:	0.5%
Rosin Acids:	0.01%
BHT Antioxidant:	40 PPM (Preservative)
Titer:	13.5 C Max.
Iodine No.:	83-95

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Health & Handling Issues:

The product is considered non-toxic, having no known health effects upon ingestion, although the ingestion of a large amount will produce a laxative effect. Ingestion cases should not have vomiting induced; call a physician for advice. There are no known effects from limited exposure to the skin or the eyes. Clean exposed skin areas with mild soap and water. Use gloves and eye protection when handling.

The product will burn in a fire, although difficult to ignite with a 372F (189 C) Flash Point. Firefighting apparatus of the dry chemical, foam, or CO2 varieties may be used effectively. Water spray may cause spread.

Spills should be absorbed with inert materials and isolated in a chemical waste container to minimize fire hazard.

There are no unusual hazards associated with handling this product.

Packaging:

The product is sold in plastic one gallon containers, packed four to a box, or in 55 gallon (208L) non-returnable lined steel drums (410 lbs; 186kg.).

Storage:

The product should not be stored in plain carbon steel vessels as it will react with the carbon steel and discolor the product. The product should be kept below 90F (32C).

Material should be rotated so as to be used within 480 days of the date-of-sale to promote maintenance of properties within original factory specification limits. The product is subject to gradual oxidation.

Regulatory (additional):

This product is listed on EINECS (European Inventory of Existing Commercial Chemical Substances) and otherwise complies with EINECS requirements.

This product also complies with US, Canadian, Australian, Japanese, Korean, Philippine, and Chinese regulations pertaining to the importation and use of the product.

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