



Tau Chemicals Inc

MACROLUB 315

TECHNICAL DATA SHEET

Description:

Macrolub 315 is a waxy compound obtained by controlled hydrogenation of refined castor oil. It's a hard product, brittle and practically odorless and tasteless, with high melting point. It's supplied in the form of flakes. The color ranges from cream to white. When it melts is transparent to straw color.

Properties:

Cream color waxy flakes, free of suspended strange matter.

Application:

LUBRICATION: It's widely used in the plastics processing industry, especially for PVC. Is used in the manufacture of premium multipurpose lithium and calcium fat formulations which are stable for a wide range of temperatures. These grades exhibit excellent water resistance, oils, greases, solvents, crude oil and its derivatives are used especially in fatty products. Macrolub 315 is used in powder form for compressed metallic powders and tableting. Also is used as an ingredient in drawing, cutting, polishing and splashing compounds. In sintered ceramics, at a level of 2% provides excellent lubrication during molding, increases hardness and impact resistance of the finished product.

COATINGS FOR PAPER: Hot Melts (Solvent-free, ethyl cellulose). MACROLUB 315 is used as protective coatings for food packaging, such as trays for meat, bread wrappers, frozen foods, soup wrappers, etc. It also acts as mixing agent for make compatible the ethylcellulose with paraffin wax as well as with polymethacrylate esters.

PROCESS AID: MACROLUB 315 at a level of 0.5-1.0% acts as a reductive additive for phenolic resins. Subsequently acts as an anti-blocking, internal lubricant and mold release agent during the molding operation. When it's added at the level of 2-3% to the polyethylene, improves processing and the subsequent fatty resistance of the laminated polymer. In rigid PVC at levels of 0.3-1.2 PHR helps during calendaring, injection molding of pipe fittings, electrical spare parts, lamination and profiles. In rubber (above 20 PHR is compatible) improves the appearance of molded parts and provides excellent shape retention on extrusion.

POLISHERS: MACROLUB 315 together with other waxes, resins or oils is useful for different types of polishers, for example: silicone polisher-cleaner, solvent-based shoe polisher, polisher cream for furniture, etc.

FOUNDRY COATINGS: The Foundry coating technique is used to produce finished metal parts when metals and alloys are difficult to process them, or where intricate shapes or difficult contours can not be ground or processing them economically. MACROLUB 315 is important for foundry coating as it don't produce ash residues, and no contains volatile of low temperature. Hardness, melting point closed, low melt viscosity and the crystalline nature of MACROLUB 315 offers much as a waxy ingredient. The coefficient of expansion and contraction percentage of MACROLUB 315 are excellent. Also its high thermal conductivity and low surface tension are others useful parameters for the casting process. The initial cost may be considered low for waxes of foundry coating.

INKS & COPYING PRODUCTS: MACROLUB 315 is an excellent dispersing agent for iron blue, carbon black and other pigments in systems where waxes, oils and resins are used. Also it's used in inks of textil transfer (hot melt). Also MACROLUB 315 acts as a carrier and binder in the manufacture of copying products.

PENCILS & CRAYONS: MACROLUB 315 improves the writing quality of pencils through of improved leaden smoothness. The "Preps" based on MACROLUB 315 will be uniform in composition and consistency, stable at high temperatures, no hardened nor aged, imparts hardness to leads, and are cohesive and not brittle.

ELECTRICAL APPLICATIONS: MACROLUB 315 is useful for impregnation and insulation of condensers, for transmission seals, for fuse coating because of their favorable dielectric properties.

HOT MELT ADHESIVES: MACROLUB 315 improves oil and grease resistance of hot melt adhesives and produces a quick melting and fixation in hot melts. Also reduces the melt viscosity. Examples of hot melt adhesive systems are:



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rolled ethylcellulose in hot melts, adhesives based on PEPVA co-polymer, adhesives based on PVB, adhesive labels, paper adhesives in waxes, packaging adhesives with low temperature of performance, wood to leather adhesives, etc.

POWDER COATING: MACROLUB 315 is used as an additive in powder coating application. Improves brightness, provides elasticity to the film, gives slipping and fogging resistance to the coating.

RESINS: MACROLUB 315 is used to make alkyd resins without drying, as a substitute for coconut oil. Provides non-yellowing properties, excellent gloss, slipping and fogging resistance to the finished product. Alkyd resins without drying are used as binder for paints N / C, baked paints, finishes for wood, etc.

THIXOTROPIC AGENTS IN COATINGS: MACROLUB 315 is used as a thixotropic agent in chlorinated paints, polyamide-epoxy coatings. It acts as an anti-settling agent and as an anti-depressing agent.

Packing:

Kraft paper sacks / 25 Kg.

Storage:

Store in a cool place and moisture free.



MACROPOL
S.A. DE C.V.