

Gilsonite® Information Bulletin

Gilsonite® Selects 350 Grade

Principal Applications

Printing Inks (Gravure, Offset)

Paints and Stains

Protective Coatings

Properties

Viscosity (25°C, 30% solids, Magie 470)	5,000-20,000 cPs
Softening Point (ASTM E28-92)	168-180°C 335-355°F
Ash (ASTM D-271-70 M)	0.25-0.40% Typical 0.90% Max. Guaranteed
Moisture (AGC Method)	0.2-0.5% Typical 0.7% Max. Guaranteed
Penetration (25°C, 100 gm, 5 sec.)	0
Flash Point (COC)	316°C; 600°F
Sulfur	0.3%
Specific Gravity	1.05
Color In Mass	Black

Typical Particle Sizing (ASTM (E11-70))

	% Retained (Cumulative)	
	Small Lump	Pulverized
+ 4 mesh	0.2	--
+ 10 mesh	3.0	--
+ 35 mesh	--	0.1
+ 65 mesh	55.0	1.8
+ 100 mesh	--	5.0
+ 150 mesh	77.0	--
+ 200 mesh	--	22.0

SOLUBILITY

Gilsonite® resin Selects 350 Grade is readily soluble without heating in aromatic solvents (Benzene, Toluene, Xylene) and in most chlorinated solvents. It is also soluble without heating in aliphatic and low aromatic solvents (VM&P and other Naphthas, Ink Oils and Mineral Spirits), but mixing time is longer. Without heating, the pulverized grade is recommended.

Films developed from Selects 350 have a very dark color with little bronzing effect. Solutions do not thicken appreciably upon aging. Selects 350 is also compatible with drying oils, rosins, hydrocarbon resins, elastomers, asphalts, and waxes for specialty applications. It has limited solubility in most alcohols and ketones.

PACKAGING

Gilsonite Selects 350 is available in 50 lb. and 25 kilo net multi-ply paper bags, which may be palletized and stretch wrapped. It is also available in bulk loaded trucks and in a variety of bulk bag sizes.

HEALTH & SAFETY

Gilsonite is a naturally occurring hydrocarbon. There is no known history of dermatitis, lung disease or other health problems associated with handling of Gilsonite as supplied. Dusts are subject to combustion. Normal precautions used with flammable materials apply.

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