

## Gilsonite® Binder Grade

### Principal Applications

Asphalt Modification and Improvement  
 Asphalt Pavement Sealer  
 Explosives  
 Briquette or Pellet Binder

### Properties

Softening Point (ASTM E28-92)	166-180°C 330-355°F
Ash (ASTM D271-70 M)	2.0% Maximum
Moisture (AGC Method)	1.0% Maximum
Penetration (25°C, 100 gm, 5 sec.)	0
Color in Mass	Black
Flash Point (COC)	316°C; 600°F
Sulfur	0.3%
Specific Gravity	1.05

### Typical Particle Sizing (ASTM E11-70)

	% Retained (Cumulative)		
	Typical	High	Low
+ 4 mesh	0.0	0.1	0.0
+ 10 mesh	0.5	2.0	0.0
+ 65 mesh	23.0	32.0	13.2
+ 150 mesh	58.0	68.0	47.1

### **SOLUBILITY**

Gilsonite® resin Binder Grade is soluble in aromatic solvents (Benzene, Toluene, Xylene) and in most chlorinated solvents. It is also soluble in aliphatic and low aromatic solvents (VM&P and other Napthas, Ink Oils and Mineral Spirits), but mixing time is longer. Without heating, the pulverized grade is recommended. Upon aging, liquid solutions may thicken, and gelling can occur in solutions using aliphatic solvents. Binder Grade can be hot fluxed with asphalt to improve ductility and weathering properties. It is also compatible with waxes for special uses. Gilsonite is either insoluble or has limited solubility in most alcohols and ketones.

## **PACKAGING**

Gilsonite Binder Grade 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 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.

[www.gilsonite-bitumen.com](http://www.gilsonite-bitumen.com)