Information Bulletin

Gilsonite® HMA Modifier Grade

Principal Applications

Modifier for asphalt for hot mix pavement applications, especially to reduce rutting and shoving at high temperatures.

Properties

Softening Point (ASTM E28-92)	160 – 185 °C
	320 – 365°F
Ash (ASTM D-271-70 M)	≤1.0%
	2 % Maximum
Moisture (AGC Method)	<0.5%
	1.0% Maximum
Penetration (25°C, 100 gm, 5 sec.)	0
Flash Point (COC)	316°C; 600°F
Nitrogen	3%
Sulfur	0.3%
Specific Gravity	1.06
Color In Mass	Black

Typical Particle Sizing

(ASTM (E11-70))

	% Retained (cumulative)
	Small Lump
+ 4 mesh	0.2
+ 10 mesh	5.0
+ 65 mesh	60.0
+ 150 mesh	80.0

Summary Description

Gilsonite® HMA Modifier Grade is intended for use as a reinforcing agent for bitumens and asphalt hot mixes. It can be dissolved directly in hot bitumen, helping achieve higher PG ratings either in combination with more expensive polymers or as a replacement for them. It can also be added at the asphalt plant during the manufacture of hot mixes. Gilsonite/bitumen blends are permanently stable mixes and produce paving surfaces with higher stability and resistance to water stripping as well as reduced temperature susceptibility. HMA Modifier Grade can be hot fluxed with bitumen to lower penetration, increase viscosity, increase softening point, improve stability and increase pavement life.

Packaging

Gilsonite® MHT 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 meltable plastic bags, 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.

REACH

Gilsonite® is a naturally occurring mineral and not subject to REACH regulations.

Revised: January, 2010