

DATA SHEET

NATURAL ASPHALT/NATURAL BITUMEN/GILSONITE

Ordering Code: HG101

APPLICATIONS: PAINTS & STAINS, INKS, COATINGS, NEWS INK,
 HEATSETTING, GRAVURE, LETTER PRESS

TECHNICAL PROPERTIES TABLE

PROPERTIES	VALUE	TEST METHOD
ASH	0.5% – 1.0% Guaranteed	ASTM D3174
MOISTURE	0.2-0.7 %	AGC METHOD
SOFTENNING POINT	160 – 185 °C	ASTM-E28
FLASH POINT	310 °C	ASTM-D56
SOLUBILITY IN TCE	75% Guaranteed	ASTM-D2042
VISCOSITY (35°C, 50% solids, Magie 52)	2,000 – 5,000 cPs	ASTM-D2042
SPECIFIC GRAVITY	1.04	ASTM-D3289
PENETRATION (25 °C, 100 gm, 5 SEC)	0	ASTM-D5
COLOUR IN MASS	BLACK	-
COLOUR IN POWDER	BROWN	-

PARTICLE SIZE TABLE ASTM E11-70

SIZE A		SIZE B		SIZE C	
MESH SIZE	% RETAINED (CUMULATIVE)	MESH SIZE	% RETAINED (CUMULATIVE)	MESH SIZE	% RETAINED (CUMULATIVE)
30	<=0.1%	0	<=0.1%	0	<=1.0%
50	<=1.3%	30	<=1.3%	10	<=5.0%
100	<=8.5%	50	<=8.5%	30	<=10.0%
200	<=30%	100	<=30%	40	<=30.0%

Summary Description

The Gilsonite modifier Grade HG101 is available in lumps and powder from mesh size 30 to 3000 mesh and is used as a reinforcing mediator for bitumen 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. It can also be added at the asphalt plant during the manufacture of hot mixes. Gilsonite/bitumen blends are 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. Our information sheet is also available for mixing instructions.

Packaging

Gilsonite binder HG101 is available in 50 and 25 kg paper and polypropylene bags, which may be palletized and stretch wrapped. It is also available in bulk-loaded trucks and in a variety of bulk bag sizes according to your requirements.