

DATA SHEET
 NATURAL ASPHALT/NATURAL BITUMEN/GILSONITE
Ordering Code: HG103M
 APPLICATIONS: HMA Binder, Bitumen Modifier

TECHNICAL PROPERTIES TABLE

| PROPERTIES | VALUE | TEST METHOD |
|--|---------------------------|-------------|
| ASH | 2.0% – 3.0% Guaranteed | ASTM D3174 |
| MOISTURE | 1.0-1.5 % | AGC METHOD |
| SOFTENNING POINT | 160 – 180 °C | ASTM-E28 |
| FLASH POINT | 316 °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 HG103M 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 HG103M 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.