

Gilsonite Specification (Ash 5~20%)

Description:

Gilsonite (Natural Asphalt, Natural Bitumen, Uintahite) is a naturally occurring solid hydrocarbon resin. It is a black, lustrous, and brittle material with high carbon content and unique solubility characteristics in aromatic and aliphatic solvents. Gilsonite is available in lump, granular, and micronized powder forms with various ash contents (from <5% up to 25%) and particle sizes (30 mesh to 400 mesh) tailored for different industrial applications.

Applications:

- Asphalt & Road Construction: Modifier to improve durability, rutting resistance, and softening point of asphalt binders and mixes.
- Inks & Paints: Black pigment and resin extender in printing inks, coatings, and paints.
- Oil & Gas Drilling: Used as a loss circulation material (LCM) and shale stabilizer in water- and oil-based drilling fluids.
- Foundry & Metallurgy: Binder in foundry sands and additive in metallurgical coke production.
- Adhesives & Sealants: Component in industrial adhesives, mastics, and waterproofing compounds.

Packing:

- 25 kg bags palletized shearing
- 1000 & 1300 kg jumbo bag

Health and Safety:

- Gilsonite is **classified as non-hazardous** under normal conditions of use.
- Ensure **adequate ventilation** to minimize dust exposure.
- Use **personal protective equipment (PPE)** such as gloves, safety glasses, and respiratory protection when handling fine powders.
- **Store** in a cool, dry, and well-ventilated area, **away from heat and ignition sources**.
- **Avoid inhalation** of dust and prolonged skin contact.
- **Dispose** of waste material in accordance with **local environmental regulations**.

Gilsonite Analysis

Parameter	Unit	Ash 5–10%	Ash 10–15%	Ash 15–20%
Ash Content	wt%	5–10	10–15	15–20
Carbon (C)	wt%	85–90	70–75	68–72
Sulphur (S)	wt%	3.5–4	4–6	5–6
Hydrogen (H)	wt%	6–8	6–8	6–7
Nitrogen (N)	wt%	0.7–0.9	0.7–0.9	0.7–0.9
Softening Point	°C	170–230	170–230	170–230
Volatile Matter	wt%	50–70	50–70	45–65
Fixed Carbon	wt%	20–35	20–35	20–35
Specific Gravity (25°C)	g/cm ³	1.02–1.10	1.02–1.15	1.05–1.20
Moisture	wt%	<3	<3	<3

Gilsonite Raw & Powder



Applications

