

TECHNICAL DATA SHEET (TDS)

Product: *Gilsonite (Natural Asphalt / Natural Bitumen)*

Manufacturer / Supplier: ATDM – Iranian & UAE Manufacturer of Gilsonite & Bitumen Products

Website: gilsonite-bitumen.com

1. Product Description

Gilsonite—also known as Natural Asphalt or Natural Bitumen—is a naturally occurring solid hydrocarbon resin with unique bonding, waterproofing, and strengthening properties. ATDM manufactures and exports premium-grade Gilsonite for asphalt, drilling fluids, inks, foundry applications, and chemical production.

It dissolves in aromatic and aliphatic solvents and blends easily with bitumen to enhance rheology, thermal stability, and resistance to deformation.

2. Typical Applications

- **Asphalt & Road Construction:** Improves softening point, reduces rutting, increases stability.
- **Oil & Gas Drilling:** Used as FLC additive, shale inhibitor, and wellbore stabilizer.
- **Ink & Coating Industry:** Provides gloss, hardness, and black color intensity.
- **Foundry:** Enhances mold release and reduces gas defects.
- **Waterproofing & Sealants:** Adds natural adhesion, elasticity, and durability.
- **Chemical Production:** Used in paints, resins, and corrosion-resistant formulations.

3. Technical Specifications (Typical Values)

Property	Unit	Typical Value
Ash Content	%	5 – 15
Volatile Matter	%	5 – 8
Fixed Carbon	%	70 – 80
Moisture	%	< 1
Softening Point	°C	135 – 240 (depending grade)
Penetration	0.1 mm	0 – 20
Particle Size	mesh	30 / 100 / 200 / 300 available
Solubility in TCE	%	75 – 90

Custom grades available upon request.

4. Product Grades by ATDM

- **Gilsonite Lump** (Various Softening Points)
- **Gilsonite Powder 30–200 Mesh**
- **Drilling Grade Gilsonite (API / OCMA)**
- **Asphalt Grade Gilsonite**
- **Ink Grade Gilsonite (High Purity)**

Each grade is optimized for specific industrial usage and export requirements.

5. Packaging Options

- 25 kg Kraft Bags
- 50 kg Bags
- 1 MT Jumbo Bags
- Meltable PE Bags for asphalt modification
- Bulk packaging for large-volume buyers

All packaging is moisture-protected and export-ready.

6. Storage & Handling

- Store in a **cool, dry, well-ventilated place**.
- Keep away from **open flames**, sparks, and direct heat sources.
- Use protective masks during powder handling to prevent dust inhalation.