



# 01 GILSONITE



## PRODUCT DESCRIPTION

Gilsonite (Natural Asphalt, Natural Bitumen, Uintahite) is a naturally occurring solid hydrocarbon resin with high carbon content and exceptional compatibility with hydrocarbon systems. It is widely used in asphalt modification, drilling fluids, coatings, foundry, and waterproofing applications. Available in lump, granular, and micronized powder forms with various ash contents and particle sizes.

## CHEMICAL COMPOSITION

PARAMETER		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
Sulfur (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 <sup>3</sup>	1.02 - 1.10	1.02 - 1.15	1.05 - 1.20
Moisture	wt%	< 3	< 3	< 3

*i* Chemical composition may vary slightly based on origin and grade.

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL RANGE
Appearance	Black, shiny, lustrous solid
Specific Gravity (25°C)	1.02 - 1.20 g/cm <sup>3</sup>
Softening Point	170 - 230 °C
Volatile Matter	45 - 70 %
Fixed Carbon	20 - 35 %
Moisture	≤ 3 %
Solubility	Soluble in aromatic and aliphatic solvents
Odor	Slight hydrocarbon odor
Flash Point	> 250 °C
pH (10% Slurry)	7 - 9

## 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.

**WATERPROOFING COMPOUNDS**  
Used in waterproofing membranes, roofing, and protective coatings.

## AVAILABLE FORMS & PARTICLE SIZES



*i* Other sizes available upon request.

## PACKAGING

- 25 kg Bags (palletized)
- 1000 kg Jumbo Bag
- 1300 kg Jumbo Bag

