

Kardoost Gilsonite

Kardoost Company is one of the big extractor, manufacturer and exporter of Gilsonite in IRAN. We have been primary exporter of Gilsonite in 2015.

What is Gilsonite?

Gilsonite, Natural Bitumen or Natural Asphalt is a Non-hazardous, naturally occurring hydrocarbon resin that is similar in appearance to coal or hard asphalt.

Gilsonite in mass is a shiny, black substance similar in appearance to the mineral obsidian. It is brittle and can be easily crushed into a dark brown powder.

Gilsonite consists primarily of carbon, hydrogen, nitrogen, oxygen, and sulfur.

Gilsonite is available both in:

Lumps (Ash 3-5-10-15-20-25) &

Powder (Mesh 30-200)



Gilsonite Usages:

Gilsonite has several usages in various industries such as Drilling Fluid Loss Control, Oil Sector, Asphalt and Road Paving Sector, Inks and Paints Sector, and etc.



❖ Gilsonite packaging:

According to customer requirements in: 25 kg bags, 50 kg bags, 650 Kg in Jumbo Bags, 985 kg Jumbo Bags

❖ Delivery Methods:

The Delivery can be done in all terms like: **FOB, CFR, CNF** and **CIF**

❖ Applications of Gilsonite

1. Drilling Fluid Loss Control

For many years, Gilsonite has been used in the oilfield as an additive in drilling fluids. Gilsonite, in various grades and formulations, has been used to combat borehole instability problems, provide lubricity, especially in highly deviated holes, and more recently as a bridging agent to combat differential pressure sticking and provide a low invasion coring fluid.



2. Oil Sector

Gilsonite is used in drilling mud fluids and oil well cementing. Gilsonite, in a range of softening points and particle sizes, is a standard ingredient in oil-based drilling muds used in shales and other difficult geological formations.



3. Asphalt and Road Paving Sector

Gilsonite is used as a performance-enhancing agent for asphalt mixes. Gilsonite-modified paving mixes achieve higher PG grades and incorporate perfectly into the asphalt blend with no need for high shear milling as is the case with many other modifiers.



4. Foundry Sector

Gilsonite is combined with coal and other ingredients as an additive in Foundry sands to insure the quality of the molded part by improving mold release and the overall finish of metal castings.



5. Chemical Products Sector

Gilsonite combines with many other chemicals and materials that take advantage of its unique physical and chemical properties. Binder and coating applications in metallurgical, wood product, refractory and other industries further demonstrate the versatility and usefulness of this remarkable material.



6. Inks and Paints Sector

Gilsonite Resin is widely used as the primary carbon black wetting agent for black news inks and headset and gravure inks. Gilsonite Resin competes advantageously with petroleum-based hydrocarbon resins, phenolic resins and metal resinates, all of which it can complement or replace to various degrees.



❖ Gilsonite Analysis and grades:

Ash($%$<math><5</math>

GILSONITE SPEC 5%		
Test	Result	Test Method
Ash Content (wt %)	<math><5</math>	ASTM-D3174
Moisture Content (wt %)	<math><3</math>	ASTM-3173
Solubility in CS ₂	92	ASTM-D4
Fixed Carbon	27-35	ASTM-D3172
Specific Gravity, 25C	1.11	ASTM-D3289
Softening Point, C	170-220	ASTM-D36
Sulphur, wt %	<math><5</math>	ASTM-D1552

Ash($%$<math><10</math>

GILSONITE SPEC 10%		
Test	Result	Test Method
Ash Content (wt %)	<math><10</math>	ASTM-D3174
Moisture Content (wt %)	<math><3</math>	ASTM-3173
Solubility in CS ₂	82	ASTM-D4
Fixed Carbon	27-35	ASTM-D3172
Specific Gravity, 25C	1.11	ASTM-D3289
Softening Point, C	170-220	ASTM-D36
Sulphur, wt %	<math><5</math>	ASTM-D1552

Ash($\%$<math><15</math>

GILSONITE SPEC 15%		
Test	Result	Test Method
Ash Content (wt %)	<math><15</math>	ASTM-D3174
Moisture Content (wt %)	<math><3</math>	ASTM-3173
Solubility in CS ₂	76	ASTM-D4
Fixed Carbon	27-35	ASTM-D3172
Specific Gravity,25C	1.11	ASTM-D3289
Softening Point,C	170-220	ASTM-D36
Sulphur, wt %	<math><5</math>	ASTM-D1552

Ash($\%$<math><20</math>

GILSONITE SPEC 20%		
Test	Result	Test Method
Ash Content (wt %)	<math><20</math>	ASTM-D3174
Moisture Content (wt %)	<math><3</math>	ASTM-3173
Solubility in CS ₂	68	ASTM-D4
Fixed Carbon	27-35	ASTM-D3172
Specific Gravity,25C	1.11	ASTM-D3289
Softening Point,C	170-220	ASTM-D36
Sulphur, wt %	<math><5</math>	ASTM-D1552

Ash(%)<25

GILSONITE SPEC 25%		
Test	Result	Test Method
Ash Content (wt %)	<25	ASTM-D3174
Moisture Content (wt %)	<3	ASTM-3173
Solubility in CS ₂	60	ASTM-D4
Fixed Carbon	27-35	ASTM-D3172
Specific Gravity,25C	1.11	ASTM-D3289
Softening Point,C	170-220	ASTM-D36
Sulphur, wt %	<5	ASTM-D1552

