



# Limonite

## **Industrial Grade**

Chemical Name: Limonite, hydrated ferric oxide Chemical formula: (FeO(OH)·nH2O) Molecular weight: 88.85 g/mol Density: 2.7-4.3g/cm<sup>3</sup> Specific gravity: 2.9-4.3

#### Appearance

Yellowish-Brown to Brown

#### Properties

Limonite is a yellow-brown, hydrated iron oxide ore with a hardness of 4 to 5.5. It forms through weathering of iron-rich minerals and is used as iron ore and for pigments like yellow ochre.

# **Typical Properties**

## Usage

Limonite is widely used in several applications. Historically, it served as a major source of iron before the advent of higher-grade ores like hematite and magnetite, especially during the early days of iron smelting.

In addition to being an iron source, limonite is valuable for its earthy tones, which are used to produce natural pigments like yellow ochre and brown ochre, commonly applied in paints, dyes, and cosmetics.

## Packing

1.5MT big bags in bulk, loose in containers/bulk.

	GRADE 01	GRADE 02
Iron(III) oxide - Fe²O³	75%	82%
Chlorine - Cl	1.03%	0.42%
Silicon dioxide - SiO <sup>2</sup>	7.50%	4.9%
Manganese(II) oxide - MnO	0.25%	0.28%
Barium Oxide - BaO	0.45%	0.43%
Aluminium oxide - AL <sup>2</sup> O <sup>3</sup>	1.25%	0.24%
Zinc oxide - ZnO	0.05%	0.04%
Sodium oxide - Na²O	0.65%	0.28%
Potassium oxide - K <sup>2</sup> O	0.19%	0.06%
Calcium oxide - CaO	0.69%	0.34%
Magnesium oxide - MgO	0.34%	0.44%
Phosphorus Pentoxide - P <sup>2</sup> O <sup>5</sup>	0.48%	0.33%
Titanium dioxide - TiO <sup>2</sup>	0.18%	0.06%
Sulfur trioxide - SO <sup>3</sup>	0.90%	1.20%
Loss On Ignition	10.20%	8.90%
Sizing	0-40 mm	0-40 mm

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