**D0LOMITE**

**Dolomite** is generally formed from limestone by dolomitisation, a digenetic process involving replacement of calcium in the calcite with magnesium. This may occur either soon after limestone deposition, by exchange with seawater, or after lithification by exchange with magnesium-bearing solutions. The process is partly a function of the permeability of the rocks and can therefore be very selective, giving rise to interbedded limestone and dolomite.

**Dolomites in Egypt**

Dolomite rocks are found in many areas in Egypt with different specifications along the Nile Valley, Suez Canal area, Sinai Peninsula, Western Desert and Red Sea governorates.

**Applications**

1. As an aggregate in construction projects.
2. Dolomite is used to make magnesia, which has important medicinal applications.
3. As a kiln-fired in the manufacture of cement.
4. Cutting into blocks and slabs for use as a dimension stone.
5. Calcined to produce lime.
6. In the chemical industry, it is used as a source of magnesia (MgO).
7. The steel industry uses, as a sintering agent in processing iron ore and as a flux in the production of steel.
8. In agriculture, it is used as a soil conditioner and as a feed additive for livestock.
9. In the production of glass and ceramics.
10. Ferrous and non-ferrous metal industries.
11. Cement industry.
12. Sugar industry.
13. Making the necessary bricks for furnace lining.

**Our products**

**EGYPT STONE** producing dolomite from two sites in **ELSAFF – GIZAH & ATAQA - SUEZ** including four(4) quarries, covering most industrial speciation’s needs.

**EGYPT STONE** supplying dolomites to steel factories and road projects

**Our products rang are:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRODUCT | ED50 | ED10 | ED7 | ED5 | ED4 | ED3 | ED2 | ED1 |
| GRIAN SIZE(cm) | **≥10** | **7-10** | **4 - 7** | **1 - 5** | **1 – 4** | **1 - 3** | **1 - 2** | **0.0 - 1** |

**Specifications**

* **Chemical composition**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| OXIDES | CaO | MgO | Fe2o3 | SiO2 | MnO | L.O.I |
| PERCENTAGE  | **25-35** | **18-25** | **0.1 -0.2** | **0.1 -0.3** | **0.02-0.03** | **45-50** |

* **Physical Properties**
* **Mohs Hardness :** 3.5 to 4
* **Specific Gravity :** 2.8 to 2.9
* **Diaphaneity :** Transparent to translucent.
* **Tenacity :** Brittle.