

Iran Chemical Mine

Technical Data Sheet

Natural Gypsum Stone

Cement Grade

Description

Gypsum or $\text{CaSO}_4 + 2\text{H}_2\text{O}$ is a mineral substance found in nature in the form of rocky. This mineral construction material appears in white and gray colors. It is the mineral calcium sulfate with two water molecules attached. Its chemical structure is composed of 23% calcium and 18% sulfur. Due to the high solubility and dissolution rate of gypsum, making it a proper material with a wide range of applications in white and gray cement.

Technical & Physical Parameters

Chemical Name	Calcium Sulphate Dihydrate
Combined Water (%)	≥ 15
$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (purity calculated by SO_3 base)	≥ 91 Guarantee
CaO (%)	≥ 32
SO_3 (%)	≥ 43.5
MgO (%)	≤ 1.3
NaCl (%)	≤ 0.050
Specific gravity of gypsum (g/cc)	2.30
Crushed Bulk density (Kg/m^3)	1600
Moisture Content (%)	0 at manufacture
Size : 0 – 50 mm	
+ 50 mm (%)	14.5
- 50 mm , + 45 mm (%)	15
- 45 mm , + 35 mm (%)	24
- 35 mm , + 20 mm (%)	24.3
- 20 mm , + 5 mm (%)	19
- 5 mm (%)	3.2
Size : 50 – 250 mm	
Size : 50 – 500 mm	

Quality Assurance

As ASTM C22/C22M, C471M