



## 'Agriculture Made Better'

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### HEAD OFFICE

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### EXCHANGE DEPOT

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Harare, Zimbabwe

## FERTILZIER TECHNICAL SPECIFICATIONS

Product: **GYPSUM**

### Material Description and Appearance:

Essentially calcium sulphate dihydrate,  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ , in the form of a moist, Off-white to grey powder free from earth, clay, stones, grit and other visible impurities

Test	Specification	Typical	Range	SD (+/-)
1. Purity, as $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ , % (m/m)	$\geq 89\%$	93.2%	91.4 – 95.3	2.83
2. Free Moisture as $\text{H}_2\text{O}$ , % (m/m)	$<16.0\%$	15.5%	7.2 – 15.8	5.17
3. Silica as $\text{SiO}_2$ , % (m/m)	$<5.0$	4.3%	3.8 – 4.5	0.80
4. Carbonates, as $\text{CO}_3\%$ (m/m)	Below Detection	Not detected	ND	0.01
5. Magnesium as, $\text{MgO}$ , % (m/m)	$<1.5\%$	0.3%	0.1 – 0.7	0.05
6. Chlorine as $\text{Cl}$ , % (m/m)	$<0.5\%$	0.01%	ND – 0.02	0.005
7. Sulphur as $\text{S}$ , % (m/m)	$<18.0$	14.9%	12.9 – 15.2	2.13
8. Fluoride as $\text{F}$ , % (m/m)	$<1.0\%$	0.02%	0 – 0.1	0.01
9. Total $\text{P}_2\text{O}_5$ , % (m/m)	$<2.0\%$	1.5%	1.3 – 1.7	0.02
10. Lead as, $\text{Pb}$ , % (m/m)	$<0.25\%$	Not detected	ND	0.01
11. Purity Index	$\geq 75\%$	78.3%	77.0 – 80.3	2.38
12. Particle Size				
	1.180mm	3.20		
	0.500mm	4.00		
	0.212mm	70.40		
	0.150mm	16.80		
	0.106mm	3.20		
	0.075mm	0.80		
	0.038mm	1.60		

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<b>Hazards</b>	The material is non-toxic; however ingestion of a sufficient quantity can cause injury.
<b>Toxicity</b>	The oral LD-50 to rates is 4300 mg/kg TLV – TWA 1.0 mg/m <sup>3</sup>
<b>Special Precautions</b>	Full protective clothing must be worn when handling the material. Avoid ingestion, inhalation, skin and eye contact.