



CALTECH GREEN ENERGY TRADING FZE

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SPECIFICATIONS OF MANGANESE ORE			TEST METHODS
PARAMETERS	GRADE – A	GRADE - B	
Manganese (Mn)	48%	48%	ISO 4298:1984
Iron Oxide (Fe ₂ O ₃)	1.25%	1.75%	ISO 9681:1990
Aluminum Trioxide (Al ₂ O ₃)	1.10%	1.10%	ISO 5889:1983
Calcium Oxide (CaO)	0.60%	0.60%	ISO 7953:1985
Silicon Dioxide (SiO ₂)	6.15% Max	9.15% Max	ISO 5890:1981
Sulphur (S)	0.003%	0.003%	ISO 320:1981
Phosphorus (P)	0.062%	0.062%	ISO 4293:1982
Sodium Dioxide (Na ₂ O)	0.28%	0.28%	ISO 5889: 1983
Size	10 -90 mm	10 -90 mm	ISO 4298:1984
Moisture Contents	0% (Dry basis)	0% (Dry basis)	

SPECIFICATIONS OF CHROME ORE		
PARAMETERS	GRADE – A	GRADE - B
	50-48%	40-38%
Cr ₂ O ₃ (BASIS)	50%	40% (Min 38%)
Al ₂ O ₃	12.5% Max.	11% Max.
SiO ₂	2 to 5% Max.	17% Max.
Phos	0.007% Max.	0.007% Max.
Sulphur	0.01% to 0.03% Max	0.03% Max.
MgO	14% Max	23.00% Max.
Cr:Fe Ratio	2.5:1 to 2.8:1 Min	1.00% Max.
Physical Size 10 -100 MM	0-2 MM 95%	2.6:1Min.
Packing	In Bulk	TOLERANCE 5% ON EITHER SIDE

SPECIFICATIONS OF IRON ORE			TEST METHODS
PARAMETERS	GRADE – A	GRADE - B	
Fe	64.39%	63.16 %	ISO 4298:1984
AL ₂ O ₃	2.33 %	1.75%	ISO 9681:1990
SIO ₂	3.49%	1.10%	ISO 5889:1983
P	0.044%	0.60%	ISO 7953:1985
S	0.099%	0.15% Max	ISO 5890:1981
M	8%	9%	ISO 320:1981
Moisture Contents	8 % Max	9% Max	ISO 4293:1982



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