

Certificate of Analysis
Manganese Oxide
[Chemical Grade Specification]

APPLICATION

The product is generally used in manufacturing chemicals such as Manganese Sulphate, Manganese Carbonate, certain pesticides, fungicides etc. The production process is tailored such that nonacid soluble Manganese content is kept to a minimum. Also, additional steps are taken to control the iron and silica content in the material.

SPECIFICATION

CHEMICAL INFORMATION

Molecular Weight: 71

TECHNICAL DATA

Density : 1.80 – 1.90 kg/dm³

Solubility: Water Insoluble/ Acid Insoluble



Characteristic	Specification	Test Method
Appearance	Fine greenish-brown powder	Visual
Soluble Manganese (Mn)	40% (+/-2%)	By Potentiometric titration- Volhards
Manganese Oxide (MnO)	50-51%	By Potentiometric titration- Volhards
Iron as Fe	8-10% max.	IS – 1473 – 1969
Silica as SiO ₂	20% max.	IS – 1473 – 1969
Alumina as Al ₂ O ₃	5% max.	IS – 1473 – 1969
Manganese Dioxide (MnO ₂)	2% max.	IS – 1473 – 1969
Screen analysis 100 mesh (BSS)	200 Mesh	
Shelf Life	3 Years	

Dioxin : Our material is free of Dioxins & Dioxin-like PCBs

Toxicity : MnO is not hazardous

Handling : Avoid dust formation, which may cause respiratory, skin, eye irritation

Storage : Store in dry, well – ventilated area

Packing : Packed in HDPE/PP bags (25/50 Kg. bags, 1000/1250 kgs BIG BAGS)

Please note that the above specifications are ones that are typically used for the applications stated above. However, if the above specifications do not match the customer's needs, we will gladly tailor make the product for him. Parameters such as Mn, Fe and Si content, Mesh size and heavy metal content can be altered as per the customer's request.

Detailed product specifications can be provided based on the grade selected by the customer.