



**INDUSTRIAS
SULFAMEX,
S.A. DE C.V.**

Tecmangan®

**(Monohydrated Manganese Sulfate)
Specifications**

<u>CHEMICAL ANALYSIS</u>	<u>TYPICAL</u>	<u>GUARANTEE</u>
MANGANESE SULFATE MONOHYDRATED (MnSO ₄ .H ₂ O)	98.2 - 98.9%	-
EQUIVALENT AS MANGANESE SULFATE (MnSO ₄)	87.8 - 88.4 %	-
EQUIVALENT AS MANGANESE (Mn)	32.0 - 32.2 %	32.0% min.
SULFUR (S)	19.0 - 19.5 %	-
MOISTURE (H ₂ O)	0.15 - 0.30%	0.5% max.
INSOLUBLE MATTER IN WATER	0.05 - 0.10%	-
pH	4 - 6	

SOME TRACE ELEMENTS

IRON(Fe)	less than 100 ppm
ARSENIC(As)	less than 1.0 ppm
LEAD(Pb)	less than 10.0 ppm
MERCURY(Hg)	less than 0.5 ppm
CROMIUM [total] (Cr)	less than 15.0 ppm
CADMIUM(Cd)	less than 5.0 ppm

PHYSICAL DATA

POWDER

BULK DENSITY (LOOSE)	0.90-1.10 g/cm ³ (56-68 Lb/Ft ³)		
APPEARANCE	WHITE TO CREAM COLORED POWDER		
WATER SOLUBILITY	99.8% Minimum		
SOLUBLE MANGANESE AS (Mn)	100 % FROM TOTAL Mn		
GRANULOMETRY	(TYLER) MESH	%	DIAMETER (mm)
	+100	20.0	Greater than 0.15
	+200	40.0	Greater than 0.075
	+325	20.0	Greater than 0.045
	-325	20.0	Smaller than 0.045

MINI-GRANULAR

BULK DENSITY (LOOSE)	1.40-1.60 g/cm ³ (86-100 Lb/Ft ³)		
APPEARANCE	WHITE TO CREAM COLORED GRANULES		
WATER SOLUBILITY	99.8% Minimum		
SOLUBLE MANGANESE AS (Mn)	100 % FROM TOTAL MANGANESE		
GRANULOMETRY	(TYLER) MESH	%	DIAMETER
	-20 +80	90.0	0.18 a 0.85 mm

MAXI-GRANULAR

BULK DENSITY (LOOSE)	1.30-1.50 g/cm ³ (81-94 Lb/Ft ³)		
APPEARANCE	WHITE TO CREAM COLORED GRANULES		
WATER SOLUBILITY	99.8% Minimum		
SOLUBLE MANGANESE AS (Mn)	100 % FROM TOTAL Mn		
GRANULOMETRY	(TYLER) MESH	%	DIAMETER
	-5 +16	90.0	1.00 a 4.00 mm

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QUALITY CONTROL DEPARTMENT

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