



Manganese Sulphate Monohydrate 32% Powder

Typical Analysis

Manganese (Mn) 32.0% Actual
Sulfur (S) 18.0% Min

Trace Elements

Arsenic (As) 15 ppm Max
Cadmium (Cd) 10 ppm Max
Lead (Pb) 20 ppm Max
Mercury (Hg) 1 ppm Max

Physical Properties

Color White to off white or pink colored granules
Water Solubility 99.5% Min
Screen Analysis 90% -50 Mesh

Package Size

50 lb (22.68 kg) Bags
2000lb (906) kg Super Sacks

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TECMANGAN^R
(MONOHYDRATED MANGANESE SULFATE)

SPECIFICATIONS

<u>CHEMICAL ANALYSIS</u>	<u>TYPICAL</u>	<u>GUARANTEE</u>
MANGANESE SULFATE MONOHYDRATED (MnSO ₄ ·H ₂ O)	90.75 - 92.30 %	-
EQUIVALENT AS (MnSO ₄)	81.0 - 82.5 %	-
EQUIVALENT AS (Mn)	29.5 - 30.0 %	29.5 % Min.
MAGNESIUM SULFATE (MgSO ₄)	6.8 - 9.1 %	-
EQUIVALENT AS (Mg)	1.2 - 1.6 %	-
CALCIUM (Ca)	0.2 - 0.3 %	-
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)	30 - 90 ppm
ARSENIC (As)	less than 0.25 ppm
LEAD (Pb)	less than 10.0 ppm
MERCURY (Hg)	less than 0.1 ppm
CHROMIUM (Cr)	less than 10.0 ppm

PHYSICAL DATA

POWDER	BULK DENSITY (LOOSE):	0.60-0.90 gr/cm ³ (37.5-56.3 lb/ft ³)
	APPEARANCE:	WHITE TO CREAM COLORED POWDER
	WATER SOLUBILITY:	99.8 % Min.
	SOLUBLE MANGANESE AS (Mn):	100 % FROM TOTAL Mn
	GRANULOMETRY (TYLER):	<u>MESH</u> <u>%</u>
		+ 100 20.0
		+ 200 20.0
	+ 325 20.0	
	- 325 40.0	
MINI-GRANULAR	BULK DENSITY:	1.30-1.50 gr/cm ³ (81.2-93.6 lb/ft ³)
	APPEARANCE:	WHITE TO CREAM COLORED GRANULES
	WATER SOLUBILITY:	99.8 % Min.
	SOLUBLE MANGANESE	100% FROM TOTAL Mn
	GRANULOMETRY (TYLER):	<u>MESH</u> <u>%</u>
		-20 + 80 90.0
MAXI-GRANULAR	BULK DENSITY:	1.30-1.50 gr/cm ³ (81.2-93.6 lb/ft ³)
	APPEARANCE:	WHITE TO CREAM COLORED GRANULES
	WATER SOLUBILITY	99.8 % Min.
	SOLUBLE MANGANESE	100 % FROM TOTAL Mn
	GRANULOMETRY (TYLER):	<u>MESH</u> <u>%</u>
		-6 + 16 90.0

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