



FABRICA DE SULFATO EL AGUILA S.A. DE C.V.

CAL - ESP - 1 - 01

Copper Sulfate Pentahydrate

VALUE TYPICAL MODIFIED, JANUARY 17th, 2017

SPECIFICATIONS SHEET

TEST	SPECIFICATIONS			VALUE TYPICAL					METHODOLOGY
	Guaranteed	° Ph Eur, BP, USP	° FCC	F-20	F-30	F-100	F-200	Small/Medium/Large	
Cu(Copper)	25.20% mín.	25.20-25.57%	25.00-25.95%	25.22%	25.34%	25.30%	25.32%	25.20%	FCC IV/MS/109
Purity	99.00% mín.	99.00-100.50%	98.00-102.00%	99.09%	99.56%	99.41%	99.41%	99.02%	FCC IV/MS/109
Inerts	1.00% máx.			NA	0.360%*	0.350%*	NA	NA	NMX-Y-110
pH(50g/l 20°C)	3.0-5.0	3.0-5.0		4.05	4.10	4.10	4.1	3.95	NMX-AA-008-SCFI
Fe(Iron)	1,000ppm máx.	1000ppm máx.		700 ppm	645ppm	690ppm	710ppm	750ppm	NMX-Y-310-SCFI-2008
Pb(Lead)	50ppm máx.	50ppm máx.		28ppm	25ppm	23ppm	25ppm	27ppm	NMX-Y-310-SCFI-2008
Zn(Zinc)	500ppm máx.	500ppm máx.		238ppm	230ppm	240ppm	220ppm	237ppm	NMX-Y-310-SCFI-2008
Cd(cadmium)	3.0ppm máx.			< 2ppm	< 2ppm	< 2ppm	< 2ppm	< 2ppm	NMX-Y-310-SCFI-2008
Ni(Nickel) **	50ppm máx.	50ppm máx.		< 10 ppm	< 10 ppm	< 10 ppm	< 10 ppm	< 10 ppm	NMX-Y-310-SCFI-2008
Hg(Mercury) **	1.0ppm máx.			< 0,1 ppm	< 0,1 ppm	< 0,1 ppm	<0.1	< 0,1 ppm	NMX-Y-310-SCFI-2008
As(Arsenic) **	2.0ppm máx.			< 0,5 ppm	< 0,5 ppm	< 0,5 ppm	<0.5	< 0,5 ppm	NOM-117-SSA1-1994
Na(Sodium) **	200ppm máx.	1000ppm máx.		<200ppm	<200ppm	<200ppm	<200ppm	<200ppm	NOM-117-SSA1-1994
Sn(Tin) **	100ppm máx.			< 80ppm	< 80ppm	< 80ppm	<80ppm	< 80ppm	NOM-117-SSA1-1994
Ba(Barium) **	< 10.0 ppm			5 ppm	5 ppm	5 ppm	5 ppm	5 ppm	EPA-200.8
Be(Beryllium) **	Not determinated			ND	ND	ND	ND	ND	EPA-200.8
Se(Selenium) **	1.0ppm máx.			< 0,25	< 0,25	< 0,25	< 0,25	< 0,25	EPA-200.8
Tl(Thallium) **	1.0ppm máx.			< 1,0 ppm	< 1,0 ppm	< 1,0 ppm	< 1,0 ppm	< 1,0 ppm	EPA-200.8
Cr(Chrome) **	5.0ppm máx.			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	EPA-200.8
Sb (Antimony) **	10.0ppm máx.			<10ppm	<10ppm	<10ppm	<10ppm	<10ppm	EPA-200.8
F(Fluor) **	15.0ppm máx			< 15ppm	< 15ppm	< 15ppm	< 15ppm	< 15ppm	NMX-AA-077-SCFI
Dioxins **	0,1 ng/kg	1,0ng/Kg		0,13 ng/kg	0,13 ng/kg	0,13 ng/kg	0,13 ng/kg	0,13 ng/kg	EPA-1613
Dioxins + PCB**	0,15ng/kg	1,5 ng/Kg		0,15 ng/kg	0,15 ng/kg	0,15 ng/kg	0,15 ng/kg	0,15 ng/kg	EPA-1613
Ins. Acid (%)	<0.005 %		<0.30%	NA	0.0023	0.0035	0.0035	NA	FCC IV/MS/109

*Value due to fluidity

** EXTERNAL ANALYSIS EACH THREE MONTHS

NA = IT DOESN'T APPLY

ND NOT DETECTED

- ° PH EUR EUROPEAN PHARMACOPEIA (PHARMACEUTICAL DEGREE).
- ° USP US PHARMACOPEIA (PHARMACEUTICAL DEGREE).
- ° BP BRITISH PHARMACOPEIA (PHARMACEUTICAL DEGREE).
- ° FCC FOOD CHEMICAL CODEX (NUTRITIOUS DEGREE).

BIBLIOGRAPHY.

MERCK CHEM DAT 2004
 FOOD CHEMICAL CODEX (FCC IV/MS/109)
 EPA-1613
 EPA-200.8
 ASTM E 11-70
 OFFICIAL MEXICAN NORM (NMX / NOM)

The information here contained is truthful and oportune, proportionate with the intention of offering support in relation to thosespecifications of the product. The procedures, uses and handling will be the client's responsibility, for that those people that our utilizen product will carry out their own tests to determine the dependability of this, for the ends that pursue.

It manufactures of Sulfate the Eagle, CORP. of C.V. it doesn't assume any responsibility for direct risks or consequences of l use of the product, neither when using it any registered patent it is infringed.

NOTE: MEDIUM SIZE: 4 to 8 millimeters

-40% US#50 min for mixed
 +60% US#50 max for mixed

Mesh	(40%-60%)US#50 for Mixed	value min	+80% US#20	65% -US#50	-70% US#100	80% US# -5-12	NMX-B-231
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