

RoHS ANALYTICAL RESULTS FOR MAGNET WIRE HOMOGENEOUS MATERIALS

Substance	Test Method	Method Reporting Limit
Cadmium & Lead	ICP-OES or XD-XRF	2 ppm or 5ppm
Hexavalent Chromium	UV-VIS or XD-XRF	0.1 ppm or 15 ppm
Mercury	ICP-OES or XD-XRF	2 ppm or 4ppm
PBB & PBDE	GC-MS	0.5 ppm
BBP, DBP, DEHP, DIBP	GC-MS	50 ppm
HBCDD	GC-MS	20 ppm

Coating Type	NEMA Designation	Dye Addition	Restricted Substance Content (ppm)							
			Cd	Hex Cr	Hg	Pb	PBB	PBDE	4 Phthalates	HBCDD
Class 155 Polyurethane	MW 79	None & Green	<0.1	ND	ND	<0.4	ND	ND	ND	ND
Class 180 Polyurethane	MW 82	None & Blue	<0.1	ND	ND	<0.9	ND	ND	ND	ND
Modified Nylon 6,6 Topcoat	MW 80/MW 83	Red	ND	ND	ND	1.4	ND	ND	ND	ND
Class 240 Type I Polyimide	MW 16	None	ND	ND	ND	<0.4	ND	ND	ND	ND
Class 220 Type II Polyimide	-	None	ND	ND	ND	<0.4	No	No	No Test	No Test
Class 105 Formvar	MW 15	Yellow	ND	ND	ND	<0.4	No	No	No Test	No Test
Class 220 Polyamideimide	MW 35/MW 81	None & Black	ND	ND	ND	<0.3	ND	ND	ND	ND
Class 200 Modified Polyester	MW 35	None & Brown	ND	ND	ND	<1.2	ND	ND	ND	ND
Class 180 Solderable	MW 77	None & White	<13.0	ND	ND	<1.9	ND	ND	ND	ND
Polyvinyl Butyral Bond Coat	MW 29	None	ND	ND	ND	<0.3	ND	ND	ND	ND
Polyester Bond Coat	-	None	ND	ND	ND	<1.3	ND	ND	ND	ND
Epoxy Bond Coat	-	None	<13.6	ND	ND	<0.3	ND	ND	ND	ND
Polyamide Bond Coat	MW 102	None	ND	ND	ND	<0.4	ND	ND	ND	ND
Plain Enamel	MW-1	None	<18.7	ND	ND	ND	ND	ND	ND	ND

ND = Not Detectible

Note: some items tested two different methods, in those cases the higher value was used

Base Metal	Specification	Restricted Substance Content (ppm)							
		Cd	Hex Cr	Hg	Pb	PBB	PBDE	4 Phthalates	HBCDD
Typical copper wire > 99.90% purity ICP-MS Analysis	CDA 11040 / 10200	ND	No Test	ND	<5	No test	No test	No test	No test
Typical Copper Wire		ND	ND	ND	ND	No	No	No test	No test
Typical Increased Tension		ND	ND	ND	ND	No	No	No test	No test
Typical High Tension Bare		ND	ND	ND	ND	No	No	No test	No test
Typical High Tension Bare		ND	ND	ND	ND	No	No	No test	No test
Typical Silver Plated		ND	ND	ND	ND	No	No	No test	No test
Typical Aluminum Wire		ND	ND	ND	6.3	No	No	No test	No test
Typical Copper Clad Al		ND	ND	ND	3.6	No	No	No test	No test