

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 |