

Magnet Wire Insulation Guide

| THERMAL CLASS | INSULATION TYPE | MWS PRODUCT CODE | NEMA STANDARD (MW1000) | IEC STANDARD (60317) | FEDERAL SPECIFICATION (JW 1177) |
|---------------|------------------------------------|------------------|-------------------------------------|------------------------------------|--|
| 105°C | Plain Enamel | PEI | NONE | NONE | NONE |
| | Formvar | F | MW 15 (RD) MW 18 (SQ & RECT) | 60317-1 (RD) 60317-17 (SQ & RECT) | JW 1177/4 (RD) JW 1177/16 (SQ & RECT) |
| | Formvar Bondable | FB | MW 19 | 60317-5 | JW 1177/6 |
| 130°C | Polyurethane Bondable - 130 | PB130 | MW 130 | 60317-2 | NONE |
| | Polyurethane Nylon Bondable - 130 | PNB130 | MW 135 | NONE | NONE |
| 155°C | Polyurethane - 155* | P155 | MW 79 | 60317-20 | JW 1177/41 |
| | Polyurethane Nylon - 155* | PN155 | MW 80 | 60317-21 | JW 1177/42 |
| | Polyurethane Bondable - 155 | PB155 | MW 131 | 60317-35 | NONE |
| | Polyurethane Nylon Bondable - 155 | PNB155 | MW 136 | NONE | NONE |
| | Dacron Glass - 155 | DGLASS155 | MW 45 (RD) MW 46 (SQ & RECT) | NONE (RD) 60317-60 (SQ & RECT) | JW 1177/20 (RD) JW 1177/25 (SQ & RECT) |
| 180°C | Polyurethane - 180* | P180 | MW 82 | 60317-51 | NONE |
| | Polyurethane Nylon - 180* | PN180 | MW 83 | 60317-55 | NONE |
| | Polyester-imide | PT | MW 30 | 60317-8 | JW 1177/12 |
| | Polyester Nylon* | PTN | MW 76 | 60317-22 | JW 1177/38 |
| | Solderable Polyester* | SPT | MW 77 | 60317-23 | JW 1177/39 |
| | Solderable Polyester Nylon* | SPTN | MW 78 | NONE | JW 1177/40 |
| | Polyester-imide Bondable* | PTB | NONE | 60317-37 | NONE |
| | Polyester-amide-imide Bondable* | APTB | MW 102 | 60317-38 | NONE |
| | Solderable Polyester Bondable | SPTB | NONE | 60317-36 | NONE |
| | Dacron Glass High Temp | DGLASS HT | MW 51 (RD) MW 53 (SQ & RECT) | NONE (RD) 60317-61 (SQ & RECT) | JW 1177/24 (RD) JW 1177/26 (SQ & RECT) |
| 200°C | Polyester - 200* | PT200 | MW 74 | 60317-42 | JW 1177/43 |
| | Polyester A/I Topcoat* | APT | MW 35 | 60317-13 (RD) 60317-29 (SQ & RECT) | JW 1177/14 (RD) JW 1177/13 (SQ & RECT) |
| | Polyester A/I Polyamideimide | APTIG | MW 35, MW 73 (RD) MW 36 (SQ & RECT) | 60317-13 | NONE |
| | Polytetrafluoroethylene (Teflon**) | TEFLON | NONE | NONE | NONE |
| 240°C | Polyimide - ML* | ML | MW 16 (RD) MW 20 (SQ & RECT) | 60317-46 (RD) 60317-47 (SQ & RECT) | JW 1177/15 (RD) JW 1177/18 (SQ & RECT) |

* UL Recognized Insulations

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