

| VBC Alloy 0003 NC 80/20 Nimonic 75 | | | | | |
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| Designation and Description | NC 80/20, Nimonic 75 | | Issued: Jan/14 | MSRR: 9500/3 | AMS: 5676F |
| | | | Revision: 01 | | |
| Cross Reference/ Conformance Specification | MSRR 9500/3 OMAT 305B DRU 959 NC 80/20 | NC82 AMS 5676 UNS N 06003 BS 2901 Pt 5 1993 NA34 | Nichrome V MIL-R-5031 Class 7 Nimonic 75 USW 8020-A | W No 2.4639 DIN 1736-SNI Cr 20 | |
| Metallurgical Background Information | NC 80/20 is surface abraded to remove all process contaminants. This production route ensures that consistent surface physical purity for the welding wire is maintained. | | | | |
| Materials To Be Welded, Applications and Advice | This wire has been used typically as filler metal for gas-tungsten-arc or gas-metal-arc welding of parts, fabricated from similar or dissimilar corrosion and heat-resistant alloys, requiring joints with strength and corrosion resistance comparable to those of the base metal, but usage is not limited to such applications. MSRR 7004, 7006, 7008, 7014, 7045, 7046, BS: HR5, HR203, HR403 | | | | |
| Wire Chemistry WT% (as per AMS) | Carbon | 0.08 - 0.26 | Nickel | Balance (Min 75%) | |
| | Manganese | 0 - 1.0 | Cobalt | 0 - 1.0 | |
| | Silicon | 0 - 0.50 | Copper | 0 - 0.2 | |
| | Sulphur | 0 - 0.015 | Iron | 0 - 0.5 | |
| | Phosphorous | 0 - 0.025 | | | |
| | Chromium | 19.00 - 21.00 | | | |
| Weld Properties | Hardness 175 HV Typical tensile strength 750-840 MPa with 35-40% Elongation | | | | |
| Sizes and Forms of Supply | Straight lengths 2.5 kg packs 1000mm/36" lengths Flag tagged for traceability All diameters | | Spooled Wire Precision Layer Wound and with controlled cast and helix 12" Spools (300mm) | | |
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