

# Duplex Stainless Steel Spooled Wire

**Formula:** Fe/Cr22/Ni 5.5/Mo 3/N

**Product Shape:** Spooled

**Diameter:** 0.5mm

**Length:** 100m

**UOM Code:** 339-527-32

**SKU:** 1000087094-group

**Product Code:** FA20-WR-000150

## Material Properties for Alloys

### Mechanical Properties

| Element                      | Value |
|------------------------------|-------|
| Hardness - Brinell           | 290   |
| Elongation at break( % )     | 25    |
| Modulus of elasticity( GPa ) | 200   |

### Electrical Properties

| Element                                     | Value |
|---|-------|
| Electrical resistivity( $\mu\text{Ohmcm}$ ) | 80    |
| Temperature coefficient( $\text{K}^{-1}$ )  | -     |

### Thermal Properties

| Element  | Value         |
|--|---------------|
| Melting point( C )   | 1440          |
| Specific heat( $\text{J K}^{-1} \text{kg}^{-1}$ )                  | 500@23°C      |
| Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )            | 19@23°C       |
| Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ ) | 13.7@20-100°C |

### Physical Properties

| Element                      | Value |
|------------------------------|-------|
| Density( $\text{gcm}^{-3}$ ) | 7.8   |