

# AISI 420 Stainless Steel Disk

**Formula:** Fe86.7/Cr13.0/C 0.3

**Temper:** Annealed

**Thickness:** 0.075mm

**Diameter:** 19.5mm

**UOM Code:** 106-359-36

**SKU:** 1000019404-group

**Product Code:** FK11-FL-000150

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	>12
Modulus of elasticity( GPa )	200
Tensile strength( MPa )	860

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	55
Temperature coefficient( $\text{K}^{-1}$ )	-

### Thermal Properties

Element	Value
Melting point( C )	1450
Specific heat( $\text{J K}^{-1} \text{kg}^{-1}$ )	460@23°C
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	24.9@100°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	10.3@0-100°C

### Physical Properties

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