

# AISI 420 Stainless Steel Spherical Powder

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

**Maximum Particle Size:** 45 $\mu$ m

**Weight:** 100g

**Product Shape:** Spherical

**Production Method:** Gas Atomised

**UOM Code:** 184-833-63

**SKU:** 1000071247-group

**Product Code:** FK11-PD-000130

## 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( $\mu$ Ohmcm )	55
Temperature coefficient( K <sup>-1</sup> )	-

### Thermal Properties

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

### Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	7.8