

# AISI 304 Stainless Steel Powder

**Formula:** Fe/Cr18/Ni10

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

**Weight:** 100g

**Production Method:** Water atomised

**UOM Code:** 028-638-41

**SKU:** 1000003559-group

**Product Code:** FE22-PD-000110

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break( % )	60
Modulus of elasticity( GPa )	190-210
Izod impact strength( J m <sup>-1</sup> )	20-136
Tensile strength( MPa )	460-1100

### Electrical Properties

Element	Value
Electrical resistivity( $\mu$ Ohmcm )	70-72

### Thermal Properties

Element	Value
Melting point( C )	1400-1455
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	16.3@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	18@20-100°C

### Physical Properties

Element	Value
Density( gcm <sup>-3</sup> )	7.93