

# Constantan® Pellets

**Formula:** Cu55/Ni45

**Maximum Lump Size:** 43mm

**Weight:** 10000g

**UOM Code:** 632-616-06

**SKU:** 1000057909-group

**Product Code:** CU04-LP-000180

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	100-300
Elongation at break( % )	45
Modulus of elasticity( GPa )	162
Izod impact strength( J m <sup>21</sup> )	107
Tensile strength( MPa )	400-590

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	52
Temperature coefficient( K <sup>21</sup> )	0.00002+/-

### Thermal Properties

Element	Value
Maximum use temperature in air( C )	500
Melting point( C )	1225-1300
Thermal conductivity( W m <sup>21</sup> K <sup>21</sup> )	19.5@23°C
Coefficient of thermal expansion( x10 <sup>22</sup> K <sup>21</sup> )	14.9@20-100°C

### Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	8.9