

BZP Mild Steel



Chemical Content	%
Carbon (C)	0.06 to 0.12
Silicon (S)	<0.3
Manganese (Mn)	0.25 to 0.50
Phosphorus (P)	< 0.045
Sulphur (S)	< 0.050
Chromium (Cr)	-
Molybdenum (Mo)	-
Nickel (Ni)	-
Copper (Cu)	-

Physical Properties	Nominal Value
Density	7850 kg/m ³
Elastic Modulus	193 Gpa
Specific Heat 0-100°C	450 J/kg
Electrical Resistivity	1000 nΩ.m

Mechanical Properties	Nominal Value
Yield Strength	> 185 Mpa
Tensile Strength	315 to 430 MpA
Elongation	> 33%
Rockwell Hardness	30 to 105
Brinell Hardness	86 to 550
Recommended Temperature Range	-40 to 400°C

Thermal Properties	Nominal Value
Mean Thermal Expansion	10.8 to 12.5 µm/m/°C

The information provided in this datasheet is based upon average values and is intended for guidance purposed only. Vital Parts assumes no responsibility or liability for the accuracy of the information contained on this datasheet. Product samples are available for the to determine the suitability of the product for any application.