



PRODUCT DATA SHEET

AVERAGE PHYSICAL AND MECHANICAL PROPERTIES

MATERIAL GRADE G80

Composition	Carbon Graphite
Apparent Density (gm/cc)	1.8
Hardness (Shore Scleroscope)	75
Compressive Strength (MPa)	172.4
Tensile Strength (MPa)	38.0
Flexural Strength (MPa)	69.0
Modulus of Elasticity (GPa)	16.6
C.T.E. (0C)	4.10 X 10 ⁻⁶
Thermal Conductivity(W/m0K)	12.1
Temperature Limit (0C) Oxidising	371
Porosity	7.0%

THE PHYSICAL CHARACTERISTICS OF THIS MATERIAL VARY SLIGHTLY DUE TO PART SIZE AND CONFIGURATION, THEREFORE THE ABOVE VALUES SHOULD BE CONSIDERED ONLY AS TYPICAL.



UNIMPREGNATED CARBON GRAPHITE

MATERIAL GRADE G80

PART No	SIZE
USG501*	44 X 0 X 80
USG502*	42 X 17 X 80
USG503*	46 X 7 X 80
USG504*	51 X 25 X 80
USG505*	57 X 18 X 80
USG506*	65 X 30 X 80
USG507*	74 X 37 X 80
USG508*	80 X 47 X 80
USG509*	87 X 35 X 80
USG510*	107 X 55 X 80
USG511*	119 X 40 X 80
USG512*	130 X 77 X 80
USG513*	157 X 102 X 80
USG514*	207 X 81 X 80
USG515*	245 X 143 X 60
USG516*	294 X 167 X 60
USG517*	345 X 190 X 60

* = NOT PRESSURE TIGHT

OTHER SIZES AND PRICES AVAILABLE ON REQUEST