

**TECHNICAL DATA SHEET**

**ASTM A193 GR.B8CLNCuB & B8CLNCuBA - S34752 ( CL. 1,1A,1D)**

**CHEMICAL COMPOSITION**

Elements	C %	Mn %	P %	S %	Si %	Cr %	Ni %	Mo %	Nb%	N%
Min	0.005					17.00	10.00	2.50	0.20	0.06
Max	0.020	2.00	0.035	0.010	0.60	19.00	13.00	3.50	0.50	0.12

**MECHANICAL PROPERTIES (METRIC PRODUCT)**

GRADE	DIAMETER (mm)	TENSILE STRENGTH MPa (Min)	YIELD STRENGTH 0.2% Mpa (Min)	ELONGATION IN % (Min)	REDUCTION AREA% (Min)	HARDNESS HRC/HBW/HRB	HT Tempering Temp °c (Min)
B8CLNCuB CL.1, 1A & 1D	All Diameters	515	205	30	50	223 HBW or 96 HRB	Carbide Solution Treated

**MECHANICAL PROPERTIES (INCH PRODUCT)**

GRADE	DIAMETER (mm)	TENSILE STRENGTH Ksi (Min)	YIELD STRENGTH 0.2% Ksi (Min)	ELONGATION IN % (Min)	REDUCTION AREA% (Min)	HARDNESS HRC/HBW/HRB	HT Tempering Temp °c (Min)
B8CLNCuB CL.1 & 1D	All Diameters	75	30	35	50	223 HBW or 96 HRB	Carbide Solution Treated

**NOTE:**

Material Spec : ASTM A193 GR.B8CLNCuB & B8CLNCuBA

Dimension STD : As per approved DRG.

Heat Treatment type : Carbide Solution Treated

Prepared by:

Approved by: