

TECHNICAL DATA SHEET

ASTM A193 GR.B8ML4CuN & B8ML4CuNA - S31730 (CL. 1,1A,1D)

CHEMICAL COMPOSITION

Elements	C %	Mn %	P %	S %	Si %	Cr %	Ni %	Mo %	Cu%	N%
Min	-					17.00	15.00	3.00	4.00	-
Max	0.30	2.00	0.040	0.010	1.00	19.00	16.50	4.00	5.00	0.045

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)
B8ML4CuN CL.1 & 1D	All Diameters	480	175	35	50	90 HRB MAX	Carbide Solution Treated
B8ML4CuNA CL.1A	All Diameters	480	175	35	50	90 HRB MAX	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)
B8ML4CuN CL.1 & 1D	All Diameters	70	25	35	50	90 HRB MAX	Carbide Solution Treated
B8ML4CuNA CL.1 & 1D	All Diameters	70	25	35	50	90 HRB MAX	Carbide Solution Treated

NOTE:

Material Spec : ASTM A193 GR.B8ML4CuN & B8ML4CuNA

Dimension STD : As per approved DRG.

Heat Treatment type : Carbide Solution Treated.

Prepared by:

Approved by: