

TECHNICAL DATA SHEET

ASTM A193 GR.B6 & B6X (UNS S41000)

CHEMICAL COMPOSITION (FOR GR. B6 & B6X)

Elements		C %	Mn %	P %	S %	Si %	Cr %	Mo %	Ni %	B%
Min		0.08					11.50	-	-	-
Max		0.15	1.00	0.040	0.030	1.00	13.50	-	-	-

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 Max	HT Tempering Temp °c (Min)
B6	Up to M100 , incl	760	585	15	50	-	593
B6X	Up to M100 , incl	620	485	16	50	26 HRC	593

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	HT Tempering Temp °c (Min)
B6	Up to 4 , incl	110	85	15	50	-	593
B6X	Up to 4 , incl	90	70	16	50	26 HRC	593

NOTE:

Material Spec : ASTM A193 GR.B6 & B6X

Dimension STD : As per approved DRG.

Heat Treatment type : Hardning & Tempering

Prepared by:

Approved by: