

TECHNICAL DATA SHEET

ASTM A193 GR.B8LN & B8LNA - S30453 (CL. 1,1A,1D)

CHEMICAL COMPOSITION

| Elements | C % | Mn % | P % | S % | Si % | Cr % | Mo % | Ni % | N% |
|----------|-------|------|-------|-------|------|-------|------|------|------|
| Min | | | | | | 18.00 | - | 8.00 | 0.10 |
| Max | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 20.00 | - | 11.0 | 0.16 |

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) |
|----------------|---------------|----------------------------|-------------------------------|-----------------------|-----------------------|----------------------|--|
| B8LN CL.1 & 1D | All Diameters | 515 | 205 | 30 | 50 | 223 HBW or 96 HRB | Carbide Solution Treated |
| B8LNA CL.1A | All Diameters | 515 | 205 | 30 | 50 | 192 HBW or 90 HRB | Carbide Solution Treated in the Finish Condition |

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) |
|----------------|---------------|----------------------------|-------------------------------|-----------------------|-----------------------|----------------------|--|
| B8LN CL.1 & 1D | All Diameters | 75 | 30 | 30 | 50 | 223 HBW or 96 HRB | Carbide Solution Treated |
| B8LNA CL.1A | All Diameters | 75 | 30 | 30 | 50 | 192 HBW or 90 HRB | Carbide Solution Treated in the Finish Condition |

NOTE:

Material Spec : ASTM A193 GR.B8LN & B8LNA

Dimension STD : As per approved DRG.

Heat Treatment type : Carbide Solution Treated / Carbide Solution Treated in the Finish Condition

Prepared by:

Approved by: