

DIA.: 826 mm (FINAL)  
 LENGTH: 12.150mm

Chemical Composition (Wt.%)

| Heat No. | Element | C    | Si   | Mn   | P     | S     | Cu   | Ni   | Cr   | Mo   | Ti   |   |   |   |   |   |   |   | Remarks         |
|----------|---------|------|------|------|-------|-------|------|------|------|------|------|---|---|---|---|---|---|---|-----------------|
|          | Min.    | -    | -    | 0.30 | -     | -     | -    | -    | -    | -    | -    | - | - | - | - | - | - | - |                 |
|          | Max.    | 0.23 | 0.45 | 1.50 | 0.035 | 0.035 | 0.30 | 0.40 | 0.30 | 0.15 | 0.85 | - | - | - | - | - | - | - |                 |
|          | Act.    | 0.22 | 0.26 | 1.40 | 0.012 | 0.004 | 0.05 | 0.11 | 0.26 | 0.11 | 0.54 | - | - | - | - | - | - | - |                 |
| 160501   |         |      |      |      |       |       |      |      |      |      |      |   |   |   |   |   |   |   | Ti, Cu+Ni+Cr+Mo |

Mechanical Properties

| Heat No. | Tensile Test [Unit: <input type="checkbox"/> kgf/cm <sup>2</sup> , <input checked="" type="checkbox"/> N/mm <sup>2</sup> , <input type="checkbox"/> MPa] |                                          |                  |         |         |              | Hardness Test | Impact Test (2mm V-Notch) |    |    |    |                                          | Heat Treatment (#1) | Delivery ECondition | Qty    | Weight (kg/ea) |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------|---------|---------|--------------|---------------|---------------------------|----|----|----|------------------------------------------|---------------------|---------------------|--------|----------------|
|          | SPEC-ID (#2)                                                                                                                                             | (Size of specimen : $\phi$ 14 x 70 G.L.) |                  |         |         |              |               |                           |    |    |    |                                          |                     |                     |        |                |
|          |                                                                                                                                                          | Yield Strength                           | Tensile Strength | E.L (%) | ROA (%) | HB (10/3000) |               |                           |    |    |    |                                          |                     |                     |        |                |
|          |                                                                                                                                                          |                                          |                  |         |         |              |               |                           |    |    |    |                                          |                     |                     |        |                |
| 160501   | 6239 1TL                                                                                                                                                 | 413                                      | 600              | 26      | 70      | 180          | 6239 1TL      | 70                        | 62 | 79 | 70 | N: 880°Cx28hrs_A.C<br>T: 575°Cx27hrs_A.C | As Forged           | 1                   | 50.740 |                |
|          | 6239 1BL                                                                                                                                                 | 389                                      | 608              | 27      | 66      | 183          | 6239 1BL      | 63                        | 30 | 61 | 58 |                                          |                     |                     |        |                |