

| MATERIAL DATA SHEET | | | MDS T01 | Rev. 4 |
|---|---|--------------|----------------------|--------------------|
| TYPE OF MATERIAL: Titanium Grade 2 | | | | |
| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPPL. REQ. |
| Seamless pipes | ASTM B 861 | 2 | - | - |
| Welded pipes | ASTM B 862 | 2 | - | - |
| Wrought fittings | ASTM B 363 | WPT2/WPT2W | - | - |
| Forgings | ASTM B 381 | F2 | - | - |
| Plates | ASTM B 265 | 2 | - | - |
| Bars | ASTM B 348 | 2 | - | - |
| Tubes | ASTM B 338 | 2 | - | - |
| 1. SCOPE | This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements in the referred standard. | | | |
| 2. CHEMICAL COMPOSITION | <i>Alternatively:</i> Chemical composition according to GOST VT 1-0 is acceptable. | | | |
| 3. HEAT TREATMENT | <i>Wrought fittings to B 363, Forgings to B 381, Plates to B 265 and Bars to B 348:</i> - Annealed condition if not the tensile properties in the referred standard can be achieved in as formed condition. | | | |
| 4. EXTENT OF TESTING | <i>Fittings to B 363:</i> Tensile test shall be carried out for each heat, heat treatment load, type and size. <i>Products to B 381/B 348:</i> Tensile test specimen shall be taken from each lot. A lot is defined as all products of the same heat and heat treatment load with a maximum deviation from the test block thickness of 10 mm. | | | |
| 5. TEST SAMPLING | <i>All products:</i> Samples for production testing shall realistically reflect the properties in the actual component. | | | |
| 6. WELDING | <i>Welded pipes to B 862:</i> Welding procedures shall be qualified in accordance with ASME IX. | | | |
| 7. Manufacture | <i>Valves to B381:</i> Valves with nominal size NPS 4 and smaller may be machined from solid forgings in the terminology of ASTM B381 on the following conditions: - Purchasers' acceptance shall be obtained in each case. - Supplementary requirement S56 shall apply to all finished products, ref. Item 12 below. | | | |
| 8. REPAIR | Repair welding of forgings is not permitted. | | | |
| 9. CERTIFICATION | The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials. The material certificate shall be issued in accordance with EN 10204 Type 3.1 and shall include the following information: - Manufacturer of the starting material for the finished product | | | |