

MATERIAL DATA SHEET			MDS N01	Rev. 4
TYPE OF MATERIAL: Nickel alloy Type 625				
PRODUCT	STANDARD	GRADE	ACCEPT. CLASS	SUPPL. REQ.
Wrought fittings	ASTM B 366	UNS N06625 Grade 1	-	S3
Pipes	ASTM B 705	UNS N06625	Class 1	-
Forgings	ASTM B 564	UNS N06625	-	S5.3
Plates	ASTM B 443	UNS N06625 Grade 1	-	-
Bars	ASTM B 446	UNS N06625 Grade 1	-	-
Pipes and tubes	ASTM B 444	UNS N06625 Grade 1	-	-
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. HEAT TREATMENT	Annealed.			
3. MACHINING OF VALVES FROM FORGING	Valves with nominal size NPS 4 and smaller may be machined from solid forgings in compliance with the terminology of ASTM A 788 on the following conditions: <ul style="list-style-type: none"> - Purchasers' acceptance shall be obtained in each case. - Supplementary requirement S5.3 shall apply to all finished products, ref. Item 5 below. 			
4. TEST SAMPLING	Samples for production testing shall realistically reflect the properties in the actual component.			
5. NON DESTRUCTIVE TESTING	<i>Fittings to B 366:</i> Supplementary requirement S3, liquid penetrant testing, shall apply to the weld area at 10 % of seamless (from the same lot as defined for mechanical testing) and 100 % of welded fittings above NPS2. For welded fittings the testing shall cover the weld only. <i>Forgings to B 564:</i> Supplementary requirement S5.3, liquid penetrant testing, shall be performed at 10 % of forgings above NPS 2 (of same lot as defined for mechanical testing).			
6. SURFACE FINISH	White pickled. Shall be carried out after any blasting and shall include finished machined surfaces.			
7. REPAIR OF DEFECTS	Weld repair of base material is not acceptable.			
8. MARKING	The component shall be marked to ensure full traceability to melt and heat treatment lot.			
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 include the following information: <ul style="list-style-type: none"> - Heat treatment condition. (Solution annealing and annealing temperature shall be stated.) 			