



SHAKTI
Forge Industries Pvt. Ltd.
CIN No. U29100GJ2015PTC084600

An ISO:9001 Certified
Manufacturer of Pipe Fitting & Flanges
Forgings, Precision Components & Industrial Suppliers

:- TEST CERTIFICATE :-

[In Accordance with EN 10204:2005 (E) Type 3.1]

CERTIFICATE NO.: SFIPL/TC/E/2022/11082							DATE: 11/Oct/22						
							PO. NO.: 327303						
Item Details as follow :-							PROCESS OF MANUFACTURING:- HOT FORGING / MACHINING						
Po. Sr.No.		ITEM DESCRIPTION			Material Specification		Size X Class			Qty	Lot No	HT No.	
023		TEE SW			SA/A105N		4" 3000#			28	E174	22D00953	
MILL TEST PROPERTIES													
Lot No	HT NO.	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	Al	CE
Min		-	0.60	0.10	-	-	-	-	-	-	-	-	-
Max		0.350	1.050	0.350	0.040	0.035	0.300	0.400	0.120	0.400	0.080	-	0.470
E174	22D00953	0.210	1.06*	0.250	0.005	0.024	0.014	0.001	0.001	0.001	0.001	0.040	0.384
CHEMICAL PROPERTIES (TEST METHOD AS PER ASTM E-415)													
Lot No	HT NO.	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	Al	CE
Min		-	0.60	0.10	-	-	-	-	-	-	-	-	-
Max		0.350	1.050	0.350	0.040	0.035	0.300	0.400	0.120	0.400	0.080	-	0.470
E174	22D00953	0.221	1.045	0.237	0.003	0.023	0.020	<0.005	<0.001	<0.005	<0.001	0.031	0.400
MECHANICAL PROPERTIES (TEST METHOD AS PER ASTM A370)													
Lot No	HT NO.	Yield Strength / (0.2 % Offset method) MPa		Ultimate Tensile Strength MPa		Elongation (%) G.L.=4D		Reduction In Area %		Hardness In BHN		Heat Treatment	
Min		250.00		485.00		22.00%		30.00%		137		Normalizing at 910°C Soaking Time 01:30 HRS and Air Cooled.	
Max		-		-		-		-		187			
E174	22D00953	372.120		515.900		26.440		48.090		150 - 153			
MARKING DETAILS :- (BRAND, MATERIAL+N, LOT NO, STD, PRESSURE, SIZE, COUNTRY OF ORIGIN)													
MATERIAL STANDARD : ASME Section II Part-A SA105 - 2019 / ASTM A105 - 2018							DIMENSION STANDARD :- ASME B16.11 - 2016						
GALVANIZING STANDARD :- N.A.							THREADING STANDARD :- N.A.						
Remark :- MATERIAL CONFIRMS TO ASME Section II Part-A SA105 - 2019 / ASTM A105 - 2018													
* For each reduction of 0.01% below the specified carbon max.(0.35%), an increase of 0.06% manganese above the specified max.(1.05%)willbe permitted up to a max of 1.65%.													
We hereby certify that the fitting was manufactured, sampled, tested and inspected in the specification and was found to meet the requirements													
For, Shakti Forge Industries Pvt. Ltd.				For, Shakti Forge Industries Pvt. Ltd.				For Client / Third Party Insp. Agency					
 Kachhela Jayesh QA/QC (Inspected By)				 Naitik Thaker Quality Manager (Approved By)									