QC F 07 Rev : 00/01/12/2015

SHAKTI
Forge Industries Pvt. Ltd.
CIN No. U29100GJ2015PTC084600

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

Country of Origin: India

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

CERTIFICATE NO.:	SFIPL/TC/E/2023/15391	**DATE:**	25/Nov/23
		PO. NO.:	363448-408
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.
016	TEE SW	SA / A105N	1-1/2" 3000#	15	F037	214191

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**
F037	214191	0.190	1.08*	0.200	0.029	0.023	0.013	0.001	0.002	0.002	0.001	0.042	0.373

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**
F037	214191	0.199	1.14*	0.210	0.033	0.016	<0.005	<0.005	<0.001	0.005	<0.001	0.040	0.391

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 01:15 HRS and Air Cooled.**
Max		-	-	-	-	**187**	
F037	214191	330.110	501.180	28.600	50.710	147 - 150	

MARKING DETAILS :- (BRAND, MATERIAL+N, LOT NO, STD, PRESSURE, SIZE, COUNTRY OF ORIGIN)

MATERIAL STANDARD :	ASME Section II Part-A SA105 - 2023 / ASTM A105 - 2023	**DIMENSION STANDARD :-**	ASME B16.11 - 2021
GALVANIZING STANDARD :-	N.A.	**THREADING STANDARD :-**	N.A.

Remark :- MATERIAL CONFIRMS TO ASME Section II Part-A SA105 - 2023 / ASTM A105 - 2023

* 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	Naitik Thaker Quality Manager	
(Inspected By)	(Approved By)	(Auth. Signature & Stamp)

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