

QC F 07

Rev : 00/01/12/2015



SHAKTI
Forge Industries Pvt. Ltd.
An ISO 9001 : 2015 Certified

-: TEST CERTIFICATE :-

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

CERTIFICATE NO.: SFIPL/TC/E/2020/2379							DATE: 14/Aug/20						
CUSTOMER:							PO. NO.: 3041-00						
Item Details as follow :-							PROCESS OF MANUFACTURING:- HOT FORGING						
Po. Sr.NO	ITEM DESCRIPTION			Material Specification			Size X Class		Qty	Lot No	HT NO		
059	90DEG ELBOW NPT			SA / A105N			1" 3000#		600	B391	904013		
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
B391	904013	0.190	0.930	0.240	0.022	0.028	0.014	-	-	-	-	0.024	0.348
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
B391	904013	0.179	0.927	0.202	0.018	0.026	0.005	0.002	0.010	0.005	0.005	0.007	0.338
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	
Max		-		-		-		-		187			
B391	904013	342.11		534.47		29.50		51.20		153 - 156			
IMPACT TEST (TEST METHOD AS PER ASTM A370, ASTM E23)													
Lot NO	HT NO.	Specimen Size:- 10 X 10 X 55MM					Test Temperature:- 0 °C						
		Min Impact Energy For One Specimen of Set (22J)					Min Impact Energy For Avg. of Each Set (27J)						
B391	904013	80.00			88.00		96.00			88.00			
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 :- ASME B1.20.1 - 2013						
Remark :- MATERIAL CONFIRMS TO ASME Section II Part-A SA105 - 2019 / ASTM A105 - 2018													
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					
(Inspected By)				(Approved By)				(Auth. Signature & Stamp)					

