

QCF07

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/2021/2571						DATE: 20/Apr/21							
CUSTOMER:						PO. NO.: 285135							
Item Details as follow :-						PROCESS OF MANUFACTURING:- HOT FORGING							
Po. Sr.NO	ITEM DESCRIPTION					Material Specification	Size X Class		Qty	Lot No	HT NO		
150	90DEG ELBOW SW					SA / A105N	3" 3000#		10	C107	916458		
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
C107	916458	0.190	1.06*	0.230	0.018	0.024	0.014	0.001	0.001	0.002	0.001	0.020	0.370
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
C107	916458	0.220	1.107*	0.236	0.023	0.024	0.005	0.012	0.001	0.006	0.001	0.011	0.407
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 02:00 HRS	
Max										187			
C107	916458	343.62		542.79		31.88		57.45		159 - 162			
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)				
C107	916458	120.00			106.00		86.00		104.00				
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 :- 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 0.05% 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					
(Inspected By)				(Approved By)				(Auth. Signature & Stamp)					

