

QCF07

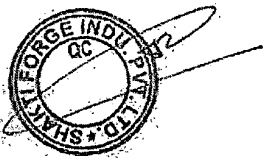

Rev: 00/01/12/2015



**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/2021/2610						DATE: 20/Apr/21								
CUSTOMER: DODSON GLOBAL INC.						PO. NO.: 285137								
Item Details as follow :-						PROCESS OF MANUFACTURING:- HOT FORGING								
Po. Sr.NO.	ITEM DESCRIPTION					Material Specification	Size X Class		Qty	Lot No	HT NO			
259	TEE-NPT					SA / A105N	1-1/4" 3000#		140	D001	106404			
<b>MILL TEST PROPERTIES</b>														
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	
D001	106404	0.200	1.08*	0.180	0.013	0.028	0.021	0.001	-	0.001	0.001	0.050	0.384	
<b>CHEMICAL PROPERTIES (TEST METHOD AS PER ASTM E-415)</b>														
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	
D001	106404	0.200	1.222*	0.253	0.013	0.027	0.009	0.007	<0.001	<0.005	0.001	0.033	0.407	
<b>MECHANICAL PROPERTIES (TEST METHOD AS PER ASTM A370)</b>														
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				
D001	106404	337.28		523.74		26.68		50.61		153 - 156				
<b>IMPACT TEST (TEST METHOD AS PER ASTM A370, ASTM E23)</b>														
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)							
D001	106404	86.00					102.00						74.00	87.33
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														
* 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%) will be 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)						

