VIRAJ PROFILES LIMITED (Forgings Div)
Survey No-140/1 & G-75 MIDC, Tarapur Ind.Area, Boisar, Dist.Palghar,Maharashtra-401506,INDIA
Email-vflqc@viraj.com,web.www.viraj.com(A01)

(A02) INSPECTION CERTIFICATE & MILL TEST REPORT - EN 10204 3.1

(A06)CUSTOMER :	Manufacturer's	(A03)MTR NO.	**12/1047623/10**
LA ROBINETTERIE INDUSTRIELLE	Symbol (A04)	(Z02) DATE	**26.01.2019**
SIEGE SOCIAL		MATERIAL SPEC.	**EN 10222 - 5 - 2017**
CENTRE DE FACTURATION ET DE			
27 RUE CUVIER - 93107 MONTREUIL		(B02) GRADE	**1.4307**
		DIMENSIONAL SPEC.	**EN1092-1:2013**

(B01) : **STAINLESS STEEL FORGED FLANGES** (B04) **DELIVERY CONDITION :**

ISO 9001:2015-TUV NORD REG.No-04100011170 EXPIRY DATE: 21.01.2019 & APPROVED ACCORDING TO AD 2000 MERKBLATT W0 & CERTIFIED ACCORDING TO PED (2014/68/EU) BY CERTIFICATION BODY FOR PRESSURE EQUIPMENT OF TUV NORD SYSTEMS (NOTIFIED BODY REGISTRATION NO. -0045)

(A07)ORDER NO: 362 676 **(A08)Sales Order No. 30096180/000260** **Article No:8117X.20**

(B09-B11)ITEM DESCRIPTION	QUANTITY(PIECES)	HEAT NUMBER
DN65 TYPE 05A PN10/16 8-HOLE	**70**	**52073**

(C71-C92) CHEMICAL ANALYSIS

ELEMENT	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Ti	%N
MIN						17.50	8.00			
MAX	0.030	2.00	1.00	0.030	0.045	19.50	10.00			
HEAT	0.019	1.51	0.30	0.026	0.039	18.30	8.06	0.40	0.002	0.0750
PROD.										

MECHANICAL PROPERTIES

Test specificaiton ASTM-A370

Sample location : Mid thick-forging	Test Temp : RT	Test Direction : Tr	Sample Shape Round		ASTM E10	

Test Values	(C12) Tensile Strength	(C11) Proof Strength		(C13)	Reduction of Area	(C32) Hardness	Charpy V-Notch 10x10x55mm (Values in Joules) & (Shear%)			
		Rp=0.2%	Rp = 1%	Elongation%			(C42) Single values			(C43)
	N/mm2	N/mm2	N/mm2	Lo=5D	%	BHN	1	2	3	AVG
Req.	500/700	200 MIN	230 MIN	35 MIN						
T	583.60	330.75	382.54	60.40	71.28	156	184	192	196	191

Other applicable Specification :NACE MR 0175 / ISO 15156 - 2015& NACE MR 0103 - 2015& MATERIAL CONFORMS TO W2/W9/W10

Melting Process : Electrical induction furnace & Argon Oxygen decarburization(IRS) Concast

Heat Treatment : Solution Annealed at 1080°C and water Quenched
Dimension : Conform with the specification (100% inspected)
Surfacequality : Satisfactory
PMI Test : No objection (100% tested with mobile spectro)
Corrosion Test : Passed IGC test in accordance with DIN EN ISO 3651-2
Micro Observation : No carbide precipitation observed on grain boundaries
Radioactitivity Test : We here by certify that all the material is free from radioactive contamination
Mercury Contamination : Free from mercury contamination

SODIME S.A.
CONTROLE RECEPTION
DATE DE CONTROLE : 18/04/19
CONTROLEUR :
CODE ART. : 8117X.20
COULÉE N°/LOT N° : 52073
376838 70 Pcs.

we certify that the above material has been inspected and tested and complies with the order/contract and is of Indian origin

VF 1

(Z03)Inspector's Stamp

VIJAY KUMAR PILLAI (GM, QAD)