



BALAJI ENTERPRISES

PLOT NO. 188, SECTOR NO. 7, P.C.N.T.D.A., BHOSARI,
PUNE-411026 PUNE MAHARASHTRA INDIA

Doc No : QF/QA/01
Rev. 00

Rev Date : 08.10.2017

INSPECTION CERTIFICATE AS PER EN 10204:2004 TYPE 3.1

CUSTOMER NAME : JC VALVULAS INDIA PVT LTD
143 DEVELOPED PLOTS, 1ST MAIN ROAD PERUNGUDI INDUSTRIAL ESTATE PERUNGUDI
CHENNAI - 600096

PO NO : JCCMP - 1819004051 PO LINE NO : 2

ITEM NO / DRG NO : X2B-150-2560-34I-3.2 X2B-150-2560 REV2

ITEM DESCRIPTION : 6"(DN 150) Ball machining (#600) ASTM A182 F316,3.2 CERTIFIED

MATERIAL SPEC. : ASTM A182/A182M-2018 Gr. F316/F316L

TC NO & DATE : BE/18-19/2303 31.03.2019
HEAT NO : 19L-0114

INVOICE/OA NO : 107115
INVOICE/OA DATE : 30.03.2019
QUANTITY : 75 NOS
COMM INVOICE NO : -

CHEMICAL COMPOSITION : REF. ACCURATE LABORATORY SERVICES TC NO. : Z-43790 DATED : 17.03.2019

PARAMETERS	C%	Mn%	Si%	S%	P%	Cr%	Ni%	Mo%	N%
Min Value						16.000	10.000	2.000	
Max Value	0.030	2.000	1.000	0.030	0.045	18.000	15.000	3.000	0.100
Actual Value	0.022	1.72	0.31	0.024	0.034	16.69	10.48	2.27	0.045

MECHANICAL PROPERTIES : TENSILE TEST : REF. ACCURATE LABORATORY SERVICES TC NO. : Z-43790 DATED : 17.03.2019

HARDNESS TEST : REF. ACCURATE LABORATORY SERVICES TC NO. : Z-43790 DATED : 17.03.2019

PARAMETERS	REQUIREMENT	ACTUAL
Tensile Strength, Min (Mpa)	515	577.92
Yield Strength, Min (Mpa) 0.2 % offset	205	258.21
Elongation in 2" or 4D, % Min	30	54.80
Reduction of Area (% Min)	50	71.71
Hardness (HBW)	-	171, 174, 170

IMPACT TEST [] (All Values in Joule)

REF. SHIV NDT & INDUSTRIAL INSPECTION SERVICES TC NO. SNTD/2018-2019/1531 DATED : 31.03.2019

Test Temperature : -196°C Test Method :

	1	2	3	Avg.
Min				
Max				
Reading	120	110	102	110.67

HEAT TREATMENT : SOLUTION ANNEALED AND WATER QUENCHED.

OTHER TEST (IF ANY)

MICROSTRUCTURE & IGC-E AS PER ASTM A262 REF. ACCURATE LABORATORY SERVICES TC NO. Z-43790 DATED : 17.03.2019

ULTRASONIC TEST REF. SHREE NDT SERVICE TC NO. SNS-520 B DATED: 13.02.2019

MILL T.C. REF. LAXCON. TC NO : 95948 DATE : 12.02.2019

Country Of Origin :- INDIA

REMARKS : 1) We hereby certify that the item mentioned above is found in compliance with specifications & customer PO requirements.
2) Material confirms to Specification NACE MR0175/ISO15156-2015 & NACE MR0103-2016
3) Material is free from radioactive contaminations & radiations.

P. Hingmire

PANKAJ HINGMIRE - QA/QC ENGG.

Prepared By

Kiran Golase

KIRAN GOLASE - ASST. MANAGER QA

Approved By

