



AMETEK
MATERIALS ANALYSIS DIVISION

SS316

Head No R-837

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin	Method Name	Method Version	Operator Name	Correction Type	Type Corr Sample Name
SARA	Unknown	5/14/2014 3:09:05 PM	5/14/2014 3:09:34 PM	Measured	Fe-20-MO		SARA	None	
Check Type	Check Status	Grade Verification Name			Grade Verification Similarity		Grade Search Name		Grade Search Similarity
None	Not Used				0%				0%
Sample Name	Grade Nom	Grade							
	SARA								

Elements Conc.

Mass	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co
	%	%	%	%	%	%	%	%	%	%
	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
1	0.057	0.57	1.50	0.006	0.009	16.51	2.22	10.45	0.016	0.19
2	0.067	0.56	1.50	0.006	0.006	16.58	2.19	10.39	0.016	0.19
3	0.064	0.56	1.50	0.006	0.007	16.57	2.19	10.39	0.017	0.19
Cal. Min	0.006	0.005	0.004	0.003	0.002	0.006	0.003	0.006	0.003	0.005
<x>	0.066	0.56	1.50	0.006	0.007	16.55	2.20	10.41	0.016	0.19
Cal. Max	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60
Mean	0.066	0.56	1.50	0.006	0.007	16.55	2.20	10.41	0.016	0.19
SD	0.002	0.003	0.005	0.0003	0.001	0.040	0.020	0.036	0.0005	0.0008
	0.05	0.54	1.55	0.035	0.010	16.82	2.08	10.15		0.20
Mass	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr	Ca
	%	%	%	%	%	%	%	%	%	%
	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
1	0.39	0.014	0.018	0.053	0.053	<0.010	0.010	<0.005	<0.003	0.001
2	0.39	0.015	0.017	0.053	0.057	<0.010	0.009	<0.005	<0.003	0.002
3	0.38	0.012	0.018	0.052	0.052	<0.010	0.009	<0.005	<0.003	0.002
Cal. Min	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.005	0.003	0.0005
<x>	0.39	0.014	0.018	0.053	0.054	<0.010	0.009	<0.005	0.003	0.002
Cal. Max	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19	0.016
Mean	0.39	0.014	0.018	0.053	0.054	<0.005	0.009	<0.023	<0.001	0.002
SD	0.003	0.002	0.0003	0.0007	0.003	0.0000	0.0003	0.0000	0.0000	0.0000

0.40

PARVATI PVT. LIMITED

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TEST CERTIFICATE

TC No.: P-229

Date : 7.5.14

INVOICE NO: 66

Customer Name & Address :

M/S SARA SAE P.LTD
DEHRADUN

Supply Condition :

AS ROLLED

CHEMICAL ANALYSIS IN PERCENTAGE

H.NO	Grade	C	Si	Mn	P	S	Cr	Mo	Ni	N	Size	Pc	Weight	Colour Code
R-837	AISI-316	.060	.49	1.54	.033	.013	16.70	2.06	10.08	.0556	56MM	50	5190	BLUE
R-838	AISI-316	.062	.52	1.59	.035	.011	16.65	2.05	10.11	.0589	56MM	19	2005	BLUE

Remarks :

Manufacturing Route: Electric Induction Furnace

Ultrasonic testing as per ASTM A 388

Material is free from residual radioactive elements.

Lead not added during manufacturing.

We are Confirming that the Test Certificate findings are Correct & Results are as per Standard / Customer's Requirements.

Lab Incharge



Quality Controller