



AMETEK
MATERIALS ANALYSIS DIVISION

#9408

Heat No - R-828 (Ø 70)

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		02/02/2014 12:22:24 PM	Measured	Fe-30-MD		9213	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.

Meas.	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co
	%	%	%	%	%	%	%	%	%	%
	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Cal. Min	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005
<x>	0.091	0.55	1.58	0.030	0.024	18.20	2.11	9.82	0.028	0.20
Cal. Max	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60
Mean	0.091	0.55	1.58	0.030	0.024	18.20	2.11	9.82	0.028	0.20
0.08		0.58	1.53	0.040	0.010	16.80	2.08	10.20		
Meas.	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr	Ca
	%	%	%	%	%	%	%	%	%	%
	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Cal. Min	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.005	0.003	0.0005
<x>	0.40	0.043	0.020	0.067	0.10	<0.010	0.012	<0.005	<0.003	0.003
Cal. Max	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19	0.016
Mean	0.40	0.043	0.020	0.067	0.10	<0.006	0.012	<0.016	<0.002	0.003
Meas.	B	Fe								
	%	%								
	Conc.	Conc.								
Cal. Min	0.0005									
<x>	0.001	66.7								
Cal. Max	0.025									
Mean	0.001	66.7								

Dr
F. J. Schell



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TEST CERTIFICATE

TC No.: P-223

Date : 20.3.14

INVOICE NO: 494

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-828	AISI-316	.073	.56	1.49	.032	.015	16.76	2.06	10.06	.0590	70MM	13	2175	BLUE
R-829	AISI-316	.066	.53	1.58	.030	.017	16.79	2.05	10.11	.0560	40MM	50	2660	BLUE
R-830	AISI-316	.069	.51	1.66	.032	.020	16.36	2.06	10.07	.0565	40MM	26	1350	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.

on 28/3/14
Depal

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

Lab Incharge



Quality Controller