

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
10352 (dia-56 mm) HNO ₃ -R-898	Unknown	Wednesday, December 17, 2014	4:11:51 PM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-30-MO		SARA SAE	None	Not Used
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
	0	None		

Grade Search Similarity	Type	Status	Outlier Removal
0	None	Not Used	

Sample Name		Grade	
10352 (dia-56 mm) HNO ₃ -R-898			
C	Conc %	Si	Conc %
3	0.064	0.43	0.064
4	0.064	0.46	0.064
5	0.066	0.46	0.066
Rep	0.064	0.45	0.064
Min Cal	0.06	0.005	0.005
Mean	0.064	0.45	0.064
Max Cal	3.00	5.04	0.064
P	Conc %	S	Conc %
3	0.032	0.008	0.032
4	0.034	0.011	0.034
5	0.037	0.012	0.037
Rep	0.034	0.010	0.034
Min Cal	0.003	0.002	0.003
Mean	0.034	0.010	0.034
Max Cal	0.18	0.30	0.18
Cr	Conc %	Mo	Conc %
3	16.82	2.12	16.82
4	16.82	2.11	16.82
5	16.84	2.10	16.84
Rep	16.83	2.11	16.83
Min Cal	0.005	0.003	0.005
Mean	16.83	2.11	16.83
Max Cal	36.00	10.20	36.00
Ni	Conc %	Nb	Conc %
3	10.31	0.011	10.31
4	10.41	0.010	10.41
5	10.54	0.009	10.54
Rep	10.42	0.010	10.42
Min Cal	0.005	0.005	0.005
Mean	10.42	0.010	10.42
Max Cal	55.2	3.60	55.2
Co	Conc %	Cu	Conc %
3	0.18	0.43	0.18
4	0.18	0.42	0.18
5	0.19	0.42	0.19
Rep	0.18	0.42	0.18
Min Cal	0.005	0.002	0.005
Mean	0.18	0.42	0.18
Max Cal	21.60	7.44	21.60
W	Conc %	V	Conc %
3	<0.040	0.066	<0.040
4	<0.040	0.064	<0.040
5	<0.040	0.062	<0.040
Rep	<0.040	0.064	<0.040
Min Cal	0.040	0.002	0.040
Mean	<0.026	0.064	<0.026
Max Cal	7.32	12.00	7.32
Pb	Conc %	Sn	Conc %
3	<0.010	0.004	<0.010
4	<0.010	0.003	<0.010
5	<0.010	0.005	<0.010
Rep	<0.010	0.004	<0.010
Min Cal	0.010	0.002	0.010
Mean	<0.009	0.004	<0.009
Max Cal	0.13	0.27	0.13
As	Conc %	Zr	Conc %
3	<0.005	0.003	<0.005
4	<0.005	0.003	<0.005
5	<0.005	0.003	<0.005
Rep	<0.005	0.003	<0.005
Min Cal	0.005	0.002	0.005
Mean	<0.014	0.004	<0.014
Max Cal	0.13	0.19	0.13

Sample Name		Grade	
10352 (dia-56 mm) HNO ₃ -R-898			
Ca	Conc %	B	Conc %
3	0.002	0.0005	68.2
4	0.002	0.0007	68.0
5	0.001	0.0009	67.9
Rep	0.002	0.0007	68.0
Min Cal	0.0005	0.0005	68.1
Mean	0.002	0.0007	68.1
Max Cal	0.016	0.025	68.1

Quality in 9516 as
per 26-720
Dufay

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TEST CERTIFICATE

TC No.: P-271

Date : 16.12.14

INVOICE NO: 405

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-898	AISI-316	.064	.56	1.54	.037	.013	16.82	2.03	10.06	.0540	56 MM	50	5320	BLUE
R-899	AISI-316	.071	.53	1.51	.034	.018	16.74	2.07	10.13	.0571	56 MM	46	4905	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.

Quality in B316
as per spec - 720
Lab Incharge





Quality Controller