

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
8946 (h.no 308122)	Unknown	Wednesday, November 20, 2013	4:56:55 PM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-01-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 Norm	Grade ID
8946 (h.no 308122)	SARA	

	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	Mg	As
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
4	0.23	0.14	0.58	0.012	0.021	0.005	<0.003	0.009	0.010	<0.005	0.004	<0.005	<0.0010	<0.002	<0.040	<0.010	<0.002	<0.002	<0.005
5	0.23	0.14	0.57	0.014	0.018	0.005	<0.003	0.007	0.010	<0.005	0.004	<0.005	<0.0010	<0.002	<0.040	<0.010	0.002	<0.002	<0.005
6	0.23	0.14	0.57	0.013	0.017	<0.005	<0.003	0.009	0.008	<0.005	0.003	<0.005	<0.0010	<0.002	<0.040	<0.010	0.003	<0.002	<0.005
Rep	0.23	0.14	0.57	0.013	0.019	0.005	0.003	0.008	0.009	<0.005	0.004	<0.005	<0.0010	<0.002	<0.040	<0.010	0.002	0.002	<0.005
Min Cal	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.002	0.005
Mean	0.23	0.14	0.57	0.013	0.019	<0.004	<0.005	0.008	0.009	<0.0001	0.004	<0.002	<0.007	<0.0006	<0.014	<0.0003	0.002	<0.001	<0.012
Max Cal	5.40	24.00	24.00	2.88	0.51	39.60	11.40	55.2	6.24	21.60	9.72	3.60	3.60	12.00	24.60	0.31	0.30	0.28	0.28
	Zr	Bi	Ca	Ce	B	Zn	La	Fe											
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc											
	%	%	%	%	%	%	%	%											
4	<0.003	<0.015	<0.0005	0.007	<0.0005	<0.003	<0.003	98.9											
5	<0.003	<0.015	<0.0005	0.007	<0.0005	<0.003	<0.003	98.9											
6	<0.003	<0.015	<0.0005	<0.006	<0.0005	<0.003	<0.003	98.9											
Rep	0.003	<0.015	<0.0005	0.007	<0.0005	0.003	0.003	98.9											
Min Cal	0.003	0.015	0.0005	0.006	0.0005	0.003	0.003												
Mean	<0.0009	<0.006	<0.0000	0.006	<0.001	<0.0003	<0.002	99.0											
Max Cal	0.30	0.048	0.016	0.66	0.13	0.054	0.28												

1010
on
SES-26-747
Dorpat



TEST CERTIFICATE

Product/Size :	56 mm Round	Customer :
T.C.No.: QMS/R/QAD/RM/15/M003993 - 12	Dt. 30/11/2013	SARA SAE PRIVATE LIMITED UNIT - II
Order No. RMP3236009077		DEHRADUN
Invoice No.: 2013001616		
Wagon/Truck No.: HR58A 1227		Invoice Wt. (T): 25.940

HEAT NO	308122
NO OF Bundles	3
	0.10 ✓
Mn %	0.39 ✓
P %	0.025 ✓
S %	0.01 ✓
Si %	0.180 ✓
Al %	0.036
C.E. (IF APPLICABLE)	0.17
YS (N/mm ²)	255
UTS (N/mm ²)	370
%EL	31
%RA	NA
OTHERS	NA
END TEST	NA
GRADE	SAE1010

AVERAGE WEIGHT OF EACH BUNDLE IS 8.617 TONS APPROXIMATELY
The material supplied conform to the standard rolling and weight tolerances.

for HOD(QA & TD)
Visakhapatnam Steel Plant

[Signature]
RASHTRIYA ISPAT NIGAM LTD.
(A GOVT. OF INDIA ENTERPRISE)
1st Floor, 27-E.C. ROAD
DEHRADUN-248 001