

Sample Result Name	rinl (311001)	Type	Unknown	Measure Date Time	Wednesday, February 12, 2014	Recalculation Date Time	11:51:02 AM	Origin	Measured
Method Name	Fe-30-MO	Method Version		Operator Name	SARA SAE	Check Type	None	Check Status	Not Used
Grade Verification Name		Grade Verification Similarity	0	Correction Type	None	Type Corr Sample Name		Grade Search Name	

Grade Search Similarity	0	Type	None	Status	Not Used	Outlier Removal	
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Sample Name
rinl (311001)

	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
1	0.065	0.13	0.40	0.008	0.011	0.029	0.003	0.032	0.016	0.010	0.008	<0.005	<0.0010	0.005	<0.040	<0.010	<0.002	<0.005	<0.001
2	0.063	0.13	0.40	0.010	0.012	0.010	<0.003	0.008	0.018	<0.005	0.003	<0.005	<0.0010	<0.002	<0.040	<0.010	<0.002	<0.005	<0.001
3	0.055	0.13	0.39	0.010	0.011	0.008	<0.003	0.009	0.017	<0.005	0.003	<0.005	<0.0010	0.003	<0.040	<0.010	<0.002	<0.005	0.003
Rep	0.061	0.13	0.40	0.009	0.011	0.015	0.003	0.016	0.017	0.007	0.005	<0.005	<0.0010	0.003	<0.040	<0.010	<0.002	0.005	0.003
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	0.005	0.003
Mean	0.061	0.13	0.40	0.009	0.011	0.015	<0.0001	0.016	0.017	0.005	0.005	<0.019	<0.005	<0.002	<0.057	<0.006	<0.001	<0.003	<0.001
Max Cal	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19

	Ca	B	Fe
	Conc	Conc	Conc
	%	%	%
1	<0.0005	<0.0005	99.2
2	0.002	<0.0005	99.3
3	0.0009	<0.0005	99.3
Rep	0.001	<0.0005	99.3
Min Cal	0.0005	<0.0005	99.4
Mean	0.001	<0.0002	99.4
Max Cal	0.016	0.025	

on
26-247

TEST CERTIFICATE

Product/Size :	56 mm Round	Customer :
T.C.No.: QMS/R/QAD/RM/15/M005955	4	Dr. 11/02/2014
Order No.	KMP3236009084	SARA SAE PRIVATE LIMITED UNIT - DEHRADUN
Invoice No.:	2013002357	
Wagon/Truck No.:	HR55C 4600	Invoice Wt. (T): 17.200

HEAT NO	311884
No Of Pcs/Bundles	2
C %	0.09 ✓
Mn %	0.41 ✓
P %	0.023 ✓
S %	0.020 ✓
Si %	0.180 ✓
Al %	0.042
C.E. (IF APPLICABLE)	0.16
YS (N/mm ²)	243
UTS (N/mm ²)	405
SEL	21
WRA	NA
OTHERS	NA
BEND TEST	NA
GRADE	SAE1010

On
28-26-742
Deepak

AVERAGE WEIGHT OF EACH BUNDLE IS 8.600 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 B.C. ROAD
DEHRADUN-248 001