

Sample Result Name	Type		Measure Date Time		Recalculation Date Time		Origin													
9151	Unknown		Thursday, January 30, 2014		4:40:25 PM		Measured													
Method Name	Method Version		Operator Name		Check Type		Check Status													
Fe-30-MQ			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																			
9151																				
	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	0.022	0.15	0.43	0.007	<0.002	21.50	2.65	40.03	0.094	0.059	1.67	0.031	0.76	0.029	<0.040	0.013	0.003	<0.005	<0.003	
Rep	0.022	0.15	0.43	0.007	<0.002	21.50	2.65	40.03	0.094	0.059	1.67	0.031	0.76	0.029	<0.040	0.013	0.003	<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	0.010	0.002	0.040	0.010	0.002	0.005	0.003	
Mean	0.022	0.15	0.43	0.007	<0.003	21.50	2.65	40.03	0.094	0.059	1.67	0.031	0.76	0.029	<0.078	0.013	0.003	<0.004	<0.003	
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	0.001	<0.0005	32.51																	
Rep	0.001	<0.0005	32.51																	
Min Cal	0.0005	0.0005																		
Mean	0.001	<0.0004	32.63																	
Max Cal	0.016	0.025																		

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in-ent
Dopoli



M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@gmail.com Website : www.mdsteels.com

Customer : M/s Sara Sae Pvt. Ltd. UNIT - II A-2, Sara Industrial Estate Ltd. Chakrata Road, Rampur Dehradun - 248197 - Uttarakhand	T.C. No.	: M- 1456
	Dated	: 20.01.2014
	Heat No	: 1556/A- 14 / 2014
	Date	: 14.01.2014

P.O. No. : Dated 20.12.2013

Specification : INC 825

Foundry identification : MD

Surface : Proof Machine

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1060⁰ C, 1.30 Hours Soaking and Water Quenched

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.038	0.470	0.232	21.20	39.500	2.880	0.018	0.043	1.950	0.88	0.012

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reduction	Charpy At ambient	Bend Tes	Hardness				
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		HRB				
Min											
Max.											
Actual											

S. No.	Description	Item & Code	Qty.
1	Centrifugally Casted Rings Proof Machined Size OD 298 mm X ID 248 mm X H- 25 mm	BX - 157 & II069-R	15 Nos. (01 - 15)

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

Gopal Dass
Checked by

[Signature]
Approved by.

for M.D. Steels Pvt. Ltd.
BHIWADI
RAJ.
[Signature]
Quality Control

M. D. STEELS (P) LTD.
F-669, Phase-II, Indl. Area
BHIWADI - 301 019.
☎ : 01493 - 222483, 512079

OK
Sham
[Signature]