

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9483(1687/E-08/2014)	Unknown	Saturday, May 24, 2014	11:38:20 AM	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			
9483(1687/E-08/2014)				

	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
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
3	0.044	0.49	0.74	0.070	0.028	20.62	2.54	40.03	0.058	0.13	1.59	0.046	0.63	0.059	<0.040	0.014	0.020	0.012	<0.003
4	0.045	0.52	0.75	0.066	0.027	20.81	2.53	39.90	0.058	0.13	1.59	0.043	0.64	0.058	<0.040	0.014	0.020	0.010	<0.003
5	0.046	0.49	0.75	0.065	0.026	20.80	2.51	39.87	0.057	0.12	1.61	0.045	0.64	0.058	<0.040	0.015	0.020	0.010	<0.003
Rep	0.045	0.50	0.75	0.067	0.027	20.75	2.53	39.93	0.058	0.13	1.60	0.045	0.64	0.058	<0.040	0.014	0.020	0.011	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	0.045	0.50	0.75	0.067	0.027	20.75	2.53	39.93	0.058	0.13	1.60	0.045	0.64	0.058	<0.017	0.014	0.020	0.011	<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																
	%	%	%																
3	0.0005	0.003	32.83																
4	<0.0005	0.004	32.74																
5	<0.0005	0.004	32.80																
Rep	0.0005	0.003	32.79																
Min Cal	0.0005	0.0005																	
Mean	<0.0005	0.003	32.84																
Max Cal	0.016	0.025																	

OK as per 26-7-2014

for a label

24/5/14



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. Division - II A-2, Sara Industrial Estate Ltd. Chakrata Road, Rampur - SELAQUI Dehradun - 248197 - Uttarakhand	T.C. No.	: M- 1587
	Dated	: 17.05.2014
	Heat No.	: 1687/E - 08 / 2014
	Date	: 08.05.2014

Order No. PO- 6157 Dated 19.04.2014

Specification : INC 825

Foundry identification : MD

Surface : Proof Machine

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1060 ° 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	2.000	1.20	0.030
Actual	0.047	0.450	0.116	20.30	40.500	2.750	0.019	0.052	1.760	1.12	0.011

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reductio	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 OD 200 mm X ID 173 mm X H - 37 mm	IX709-R	60 Nos. (01- 60)

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.

Gopu Dass

Checked by

Approved by

[Signature]

for M. D. Steels Pvt. Ltd.



Quality Control

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