

Sample Result Name	9905 (HNO-1774H-02/2014) MD STEEL	Type	Unknown	Measure Date Time	Wednesday, August 06, 2014	Recalculation Date Time	5:08:36 PM	Origin	Measured
Method Name	Fe-30.4MO	Method Version		Operator Name	SARA SAE	Check Type	None	Check Status	Not Used
Grade Verification Name		Grade Verification Similarity		Correction Type		Type Corr Sample Name		Grade Search Name	
Grade Search Similarity	0	Type	None	Status	Not Used	Outlier Removal			

	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
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
4	0.046	0.42	0.58	0.039	0.022	22.08	3.15	36.31	0.093	0.10	1.87	0.16	1.02	0.14	<0.040	0.013	0.018	<0.005	0.004
Rep	0.046	0.42	0.58	0.039	0.022	22.08	3.15	36.31	0.093	0.10	1.87	0.16	1.02	0.14	<0.040	0.013	0.018	<0.005	0.004
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	0.046	0.42	0.58	0.039	0.022	22.08	3.15	36.31	0.093	0.10	1.87	0.16	1.02	0.14	<0.012	0.013	0.018	<0.004	0.004
Max Cal	3.00	5.07	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																
%	%	%	%																
4	0.002	0.002	31.87																
Rep	0.002	0.002	31.87																
Min Cal	0.0005	0.0005																	
Mean	0.002	0.002	31.90																
Max Cal	0.016	0.025																	

Quality in TN-835 as per Sec 26-724A

Repeal



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-1674
	Dated	: 04.08.2014
	Heat No.	: 1774/H-02 / 2014
	Date	: 02.08.2014

Order No. 7054 Dated 15.07.2014

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	3.000	1.20	0.030
Actual	0.040	0.435	0.584	21.00	39.800	3.000	0.008	0.054	1.650	0.89	0.003

MECHANICAL PROPERTIES

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

S. No.	Description	Item Code	Qty.
1	Centrifugally Casted Rings		30 Nos.
	OD 116 mm X ID 98 mm X H- 30 mm		(01- 30)

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.

Checked by

Approved by

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