



# INSPECTION CERTIFICATE

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DROP FORJA S.A DE C.V.  
 RIO POC No. 43  
 COL. CUAUHTEMOC, MEXICO D.F.  
 CP: 06600  
 PHONE: (55) 2282-2950

Customer	GLOBAL MAKERS FORGE S.A. DE C.V.	Certificate No.	<b>7231</b>	Date	DEC 15, 2015
P.O. No.	CERTIFICADO DE INSPECCION ACC TO EN10204-3.1 (DIN50049/3.1)	Name	ACERO SIN COSTURA (SEAMLESS STEEL) / CONEXION SOLDABLE (BUTT WELD FITTING)		
Job No.	120069 / 0010000162-0101	POR/Req'n No	ASME SA/ASTM A234 WPB (DIN50049/3.1B)EN10204 3.1		
Specification for Metal	ASME SA/ASTM A234WPB NACE MR0175-03 ASME B16.9-2007	Starting Metal	STANDARD MATERIAL, PRESSION, DIMENSION, COLADA		
BRAND	DROP	Dimension and Visual Inspection	BUENO		

Heat Code [HCN]	No.	Descriptions	Qty (pc-s)		Heat Treatment
			1	2	
2101		C000 45° 18 SIN COSTURA A234 WPB (CE0 STD)		2	G · N
348V		C000 45° 20° SIN COSTURA RADIO LARGO A234 WPB(CE0 STD)	1		G · N

### CHEMICAL COMPOSITION (%)

Heat Code No [HCN]	Spec. Max.	Min.	C											SI											MN											P											S											CR											MO											CU											NI											V										
			C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	Nb	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V	C	SI	Mn	P	S	Cr	Mo	Cu	Ni	V																													
2101	0.19	0.22	0.46	0.018	0.006	0.010	0.000	0.01	0.010	0.000		0.19	0.22	0.46	0.018	0.006	0.010	0.000	0.01	0.010	0.000		0.19	0.22	0.46	0.018	0.006	0.010	0.000	0.01	0.010	0.000		0.19	0.22	0.46	0.018	0.006	0.010	0.000	0.01	0.010	0.000		0.19	0.22	0.46	0.018	0.006	0.010	0.000	0.01	0.010	0.000		0.19	0.22	0.46	0.018	0.006	0.010	0.000	0.01	0.010	0.000																																															
348V	0.14	0.25	0.93	0.010	0.006	0.040	0.010	0.07	0.020	0.000		0.14	0.25	0.93	0.010	0.006	0.040	0.010	0.07	0.020	0.000		0.14	0.25	0.93	0.010	0.006	0.040	0.010	0.07	0.020	0.000		0.14	0.25	0.93	0.010	0.006	0.040	0.010	0.07	0.020	0.000		0.14	0.25	0.93	0.010	0.006	0.040	0.010	0.07	0.020	0.000																																																										

### MECHANICAL PROPERTIES

Heat Code No [HCN]	Spec. Max.	Min.	Y.S		T.S	CE (%)	Hardness Test		CE	ELONGATION		REDUCTION OF AREA	
			MPA / KSI				HB						
2101	45700 PSI	69300 PSI											
348V	45900 PSI	66300 PSI								35%		BUENO	
										41%		BUENO	

TRATAMIENTO TERMICO: 620° C - 980° C

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

Remark :

CE = C+Mn / 6 + (C+Mn+V)/5 + (Ni+Cu)/15

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Reviewed by: \_\_\_\_\_  
 Witnessed by: \_\_\_\_\_

Approved by: \_\_\_\_\_

Head of Quality Control Dep't

42. An. An. Steel  
 17. Heat Treat  
 02. Out Cold  
 03. Water Control  
 04. Mill Control  
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 31. Solution Treatment  
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