



BROCKHOUSE SPECIAL PRODUCTS

A Division of Brockhouse Forgings Limited.
 Howard Street, Hill Top,
 West Bromwich, West Midlands B70 0SN.
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Customer Ferretera Anahuac SA De CV
 Order No. 93/30

Our Order No. S0/00244

Date 29.01.96

Certificate No.
B.S.P.C/ 0030

Inspection Certificate
 DIN 50049/
 3.8

Cast No.	Quantity	Description	Test No.	Mechanical Properties							Impact Strength Notch Temp	Hardness BH.N.
				Yield Stress Nmm ² /KPSX	Tensile Strength Nmm ² /KPSX	Reduction of Area %	Elongation of Area LO ± 5D %	Al %	Nb %	V %		
1030	100	1 1/4" 1501b R/F Slip-On	41419	581.111	39.75	57.36	30.00					159
C002	100	3/4" 3001b R/F Weld Neck Std	41418	330.20	534.46	57.85	28.28					159
08619	100	1 1/4" 1501b R/F Slip-On	41407	58.120	39.78	67.85	27.20					159

Chemical Analysis

Cast No.	Chemical Analysis											Material Specification	Long Form	
	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Al %	Nb %	V %			Cu %
1030	.25	.218	.771	.015	.015	.111	.014	.075	XXXXXX	.005	XXXXXX	.261	ASTM	
C002	.229	.195	.744	.023	.020	.167	.022	.079	XXXXXX	.005	XXXXXX	.221	A105	
08619	.255	.213	.803	.019	.019	.16	.003	.10	XXXXXX	.0012	XXXXXX	.11	Normalised	

All items will be stamped with our mark.

B.S.P.

Manufacturing requirements are satisfied
 Dimensional and surface requirements are satisfactory

For and on behalf of
 Brockhouse Special Products