

QUALITY CERTIFICATE

Customer: PROVEEDORA DE MATERIALES ANGER SA
DE CV, A. LOPEZ MATEOS 150
COL. LAGRANGE SAN NICOLAS DE LOS
GARZA, N.L. MEXICO C.P. 66480

PO No.	300	Dated: April. 2 , 2013	Works No.: 2013-028-2
Material:	ASTM A105 NACE	Standard: ANSI B16.5	Invoice No.: GL13B008-2

A. Content of the delivery

Item No.	Quantity	Description	Heat No
4	336	150-RF-SO 6"	B8314

B. Chemical analysis

Heat No	C %	Mn %	P %	S %	Si %	Cr %	Ni %	Mo %
B8314	0.19	0.88	0.018	0.006	0.25	0.035	0.028	0.001
Heat No	V %	Cu %	Nb %	Al %				
B8314	0.001	0.007	0.001	0.026				

C. Mechanical properties tests

Heat No	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Reduction (%)	Hardness (HB)
B8314	290	500	33	73	150

D. Visual and dimensional inspection: without complaint

E. The goods are manufactured according to a quality management system approved and registered to ISO 9001

Place

Inspection Date January, 2013

Work inspector

