

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.	303	Dated: November. 25 , 2013	Works No.: 2013-429-1
Material:	ASTM/ASME A105/SA105	Standard: ANSI B16.5	Invoice No.: GL13B093-1

A. Content of the delivery

Item No.	Quantity	Description	Heat No
4	7500	150LB-RF-SO 4"	11474

B. Chemical analysis

Heat No	C %	Mn %	P %	S %	Si %	Cr %	Ni %	Mo %
11474	0.20	0.86	0.016	0.007	0.28	0.021	0.02	0.004
Heat No	V %		Cu %		Nb %		Al %	
11474	0.001		0.013		

C. Mechanical properties tests

Heat No	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Reduction (%)	Hardness (HB)
11474	310	515	33	68	154

D. Visual and dimensional inspection: without complaint

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

F. In compliance with NACE MR-0175 material standard

Place

Inspection Date November.2013

Work inspector

