

## MATERIAL TEST REPORTS

Customer: PROVEEDORA DE MATERIALES ANGER SA DE C.V.  
 ALFONSO REYES 4030 NTE COL DEL NORTE 64500  
 MONTERREY NUEVO LEON

Order No.	250	Dated: December.10,2010	Works No.: 2010-556-2
Material:	ASTM A105	Standard :ANSI B16.5	Invoice No.: GL10B089-2

### A. Content of the delivery

Item No.	Quantity	Description	Heat No
20	922	150-RF-WN-STD 2"	201047
21	600	150-RF-WN-STD 3"	201047
23	112	150-RF-WN-STD 6"	201047
19	700	150-RF-WN-STD 1"	201047
24	144	150-RF-WN-STD 8"	201047

### B. Chemical analysis

Heat No	C %	Mn %	P %	S %	Si %	Cr %	Ni %	Mo %
201047	0.18	0.62	0.011	0.006	0.22	0.026	0.017	0.001
Heat No	V %	Cu %	Nb %	Ti %				
201047	0.001	0.007	0.001	0.002				

### C. Mechanical properties tests

Heat No	Yield Strength (N/mm <sup>2</sup> )	Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Reduction (%)	Hardness (HB)
201047	320	520	38	61	144

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 November. 10, 2010

Work inspector

