

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204 3.1 B - ISO 10474 3.1 B)

Numero Number 11434
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Producto / Product: **Acero**
 Pedido del cliente No: **7663, 7696, 7731**
 Customers Order No:
 Dimensiones y tolerancias / Dimension and tolerances
 ASME B 16.9 and ASME B 16.28 edition 2001

Lista de empaque: **6483**
 Packing List:
 Bocas / Ends
 Biselado / Bevelled ends

Fecha / Date: **03 de 2004**

RT.	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C					
				ESF. CEBENCIA YIELD STRENGTH (MPa)	ESF. RUPURA TENSILE STRENGTH (MPa)	ELONG. %2"	DUREZA HARDNESS HR	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules	
1	SVK5	50	CODO R.L. 4 X 90 CED XS	330	482	39	137	N/A	N/A	N/A	N/A	N/A	N/A
2	TY05	100	CODO 6 X 45 CED STD	357	508	38	140	N/A	N/A	N/A	N/A	N/A	N/A
3	TBA6	200	CODO R.L. 6 X 90 CED STD	315	476	40	137	N/A	N/A	N/A	N/A	N/A	N/A
4	TZB5	100	CODO R.L. 6 X 90 CED STD	311	461	43	138	N/A	N/A	N/A	N/A	N/A	N/A
5	TX05	21	CODO 8 X 45 CED STD	317	482	40	137	N/A	N/A	N/A	N/A	N/A	N/A
5	TXV5	29	CODO 8 X 45 CED STD	329	506	40	137	N/A	N/A	N/A	N/A	N/A	N/A
7	TBN6	46	CODO R.L. 8 X 90 CED STD	307	480	40	143	N/A	N/A	N/A	N/A	N/A	N/A
3	TYT5	14	CODO R.L. 8 X 90 CED STD	311	481	43	136	N/A	N/A	N/A	N/A	N/A	N/A
3	TZP5	31	CODO R.L. 8 X 90 CED STD	311	479	40	138	N/A	N/A	N/A	N/A	N/A	N/A

ANALISIS QUIMICO / CHEMICAL ANALYSIS

CESSO CESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb	PRUEBAS DE IMPACTO 0°C / IMPACT TEST 0°C			
															1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
IF	SVK5	26013	0.3390	0.180	0.830	0.010	0.001	0.310	0.040	0.050	0.030	0.040	0.001	0.001	N/A	N/A	N/A	N/A
IF	TY05	12535	0.3240	0.190	0.670	0.010	0.002	0.270	0.040	0.090	0.026	0.050	0.000	0.000	N/A	N/A	N/A	N/A
IF	TBA6	13510	0.3220	0.190	0.670	0.011	0.001	0.260	0.050	0.047	0.030	0.020	0.000	0.000	N/A	N/A	N/A	N/A
IF	TBBS	13014	0.3040	0.170	0.680	0.007	0.004	0.260	0.050	0.054	0.021	0.040	0.000	0.000	N/A	N/A	N/A	N/A
IF	TX05	12430	0.3310	0.190	0.670	0.008	0.002	0.260	0.070	0.066	0.036	0.050	0.000	0.000	N/A	N/A	N/A	N/A
IF	TXV5	12431	0.3530	0.190	0.800	0.007	0.002	0.270	0.060	0.076	0.052	0.040	0.000	0.000	N/A	N/A	N/A	N/A
IF	TBN6	13624	0.3450	0.190	0.800	0.008	0.003	0.240	0.047	0.037	0.030	0.030	0.000	0.000	N/A	N/A	N/A	N/A
IF	TYT5	13015	0.3170	0.180	0.670	0.006	0.003	0.270	0.050	0.062	0.039	0.050	0.000	0.000	N/A	N/A	N/A	N/A
IF	TZP5	12535	0.3140	0.180	0.670	0.010	0.002	0.270	0.040	0.090	0.026	0.050	0.000	0.000	N/A	N/A	N/A	N/A

Confirmamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son veridicas o una copia fiel de los certificados enviados por el Fabricante o el proveedor de Materia Prima con N°.

We certify that result of chemical analysis and mechanical test are true and correct copy of the test certificate issued by the manufacturer and/or supplier. Raw material certificate N°

03012986 03018849
 03013927 03011423 03011132
 03013905 03013937 03014121