

QUALITY CERTIFICATE

APS P-7107

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
101342	,080	1,180	,180	,021	,027	,003	,130	,170	,028	,500	,021	,027	,35
101345	,100	1,190	,170	,024	,021	,003	,120	,170	,030	,510	,023	,019	,37
102210	,100	1,190	,220	,016	,023	,036	,110	,140	,031	,340	,002	,017	,37
102211	,120	1,200	,210	,015	,016	,036	,110	,140	,030	,420	,002	,020	,39
102212	,100	1,180	,210	,018	,022	,035	,160	,190	,036	,430	,002	,027	,38
102213	,110	1,310	,200	,020	,021	,035	,170	,180	,034	,460	,001	,031	,42
102351	,098	1,240	,200	,019	,019	,046	,210	,190	,048	,400	,004	,023	,40
102352	,110	1,170	,210	,014	,018	,042	,190	,190	,050	,370	,004	,022	,40
102355	,087	1,190	,190	,018	,027	,035	,180	,150	,046	,360	,004	,038	,37
102356	,086	1,160	,190	,017	,027	,037	,160	,190	,052	,390	,005	,028	,37
102357	,086	1,210	,210	,021	,028	,039	,160	,190	,047	,340	,005	,032	,37
102358	,093	1,230	,180	,018	,028	,036	,150	,170	,045	,340	,005	,023	,38
102360	,102	1,240	,210	,027	,022	,043	,210	,160	,050	,400	,005	,038	,41
102361	,097	1,200	,210	,031	,021	,037	,230	,160	,044	,420	,004	,036	,40
102362	,106	1,290	,230	,027	,016	,043	,220	,140	,039	,370	,003	,033	,42
102363	,113	1,280	,230	,029	,013	,045	,210	,180	,039	,410	,003	,027	,42

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=2"	
		C11		C12		C13	
W-8x31	101323	358	358	549	548	29,5	28,3
W-8x31	101324	360	352	546	546	30,6	30,4
W-8x31	102211	415	407	541	538	29,2	28,1
W-8x31	102212	386	380	514	498	31,8	31,1
W-8x31	102213	397	386	538	516	30,7	30,7
W-8x31	102351	386	380	514	498	31,8	31,1
W-8x31	102352	444	439	549	533	27,3	26,9
W-8x31	102355	374	371	513	513	34,2	34,2
W-8x31	102356	374	372	513	503	34,2	33,5
W-8x31	102357	418	410	549	529	31,4	31,2
W-8x31	102358	415	407	541	538	29,2	28,1
W-8x35	101317	360	356	545	541	31,5	30,7
W-8x35	101318	380	380	542	528	32,1	31,5
W-8x35	101319	391	389	550	537	30,8	30,3
W-8x35	102210	401	393	543	521	33,1	33,
W-8x35	102211	395	389	532	522	29,4	28,5
W-8x40	56210	392	385	550	542	29,8	28,7
W-8x40	101345	394	379	548	534	31,	30,6
W-8x40	102362	449	440	550	533	28,	26,5
W-8x40	102363	448	440	549	533	27,2	26,4
W-8x48	101341	390	378	541	524	29,7	29,
W-8x48	101342	382	376	532	510	30,7	29,9
W-8x48	102360	440	434	544	544	26,5	25,
W-8x48	102361	440	435	545	543	26,	24,7
W-8x48	102362	435	436	544	546	25,7	25,9

A02 EN 10204/3.1.B

CSA G40.21 50W/ASTM A36-04/A572 G50-04/A992-04/A6-04

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
56210	,100	1,210	,200	,027	,032	,004	,160	,200	,036	,450	,024	,036	,39				
101317	,080	1,190	,170	,033	,022	,003	,130	,210	,042	,500	,019	,030	,36				
101318	,070	1,240	,190	,019	,028	,003	,120	,200	,038	,450	,023	,031	,35				
101319	,090	1,200	,200	,018	,023	,003	,120	,190	,038	,450	,024	,027	,36				
101323	,090	1,190	,210	,028	,025	,003	,210	,230	,047	,440	,021	,018	,38				
101324	,090	1,210	,180	,029	,022	,003	,190	,220	,041	,440	,021	,018	,38				
101341	,090	1,200	,190	,023	,025	,003	,120	,170	,029	,490	,023	,018	,36				

ARCELOR OLABERRIA, S.L. INSCRITA EN EL REGISTRO MERCANTIL DE GUIPUZCOA, TOMO 1253 DEL LIBRO DE INSCRIPCIONES, HOJA 88-5017, FOLIO 107, INSCRIPCION 15. Nº 1. N.I.F. (ES) B-20435301

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 LA REMISION No
 22-06-10-00
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