



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	,025	,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	,047	,420	,004	,036	,40
102362	,106	1,290	,230	,027	,016	,043	,220	,140	,039	,370	,003	,031	,42
102363	,113	1,280	,230	,029	,013	,045	,210	,130	,039	,410	,003	,027	,42

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=2"	
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	369	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	549	521	33,1	33,
W-8x35	102211	395	389	542	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	102352	449	440	580	533	26,5	26,5
W-8x40	102362	448	440	549	533	27,2	26,4
W-8x48	101341	389	378	541	524	28,7	29,
W-8x48	101342	382	376	532	510	29,7	29,9
W-8x48	102360	440	440	544	544	26,5	25,
W-8x48	102361	440	435	545	542	26,	24,7
W-8x48	102362	435	436	546	546	25,7	25,9

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