

ArcelorMittal Olaberria, S.L.

Long Carbon Steel Europe

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Guipúzcoa)

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CERTIFICADO DE CALIDAD

OLA P-20452

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
		C11	C11	C12	C12	C13	C13
W-8x24	114201 ✓	440	422	542	543	21,4	21,2
W-8x24	114202 ✓	402	396	547	539	21,6	21,
W-8x24	114203 ✓	413	411	549	549	21,4	21,
W-8x24	114213 ✓	382	380	543	542	21,7	21,1
W-8x24	114214 ✓	399	383	542	549	21,4	20,7
W-8x24	114216 ✓	389	373	547	546	21,3	21,1
W-8x40	114192 ✓	398	392	540	520	22,	21,6
W-8x40	114195 ✓	416	406	543	539	22,8	22,1
W-8x48	114208 ✓	398	392	543	519	23,4	22,6
W-8x48	114209 ✓	397	387	542	530	23,8	23,5

10 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
B06: Marca APO

Z01

Luis María Lakunza

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							
114192	,082	1,160	,210	,021	,033	,037	,140	,180	,045	,400	,003	,025	,36							
114195 ✓	,088	1,230	,190	,030	,035	,042	,140	,170	,038	,390	,003	,055	,37							
114201 ✓	,124	1,170	,210	,026	,021	,044	,130	,180	,040	,420	,003	,044	,40							
114202 ✓	,093	1,150	,200	,033	,032	,045	,150	,200	,041	,450	,003	,031	,38							
114203 ✓	,093	1,180	,200	,036	,024	,043	,180	,200	,042	,430	,003	,025	,38							
114208 ✓	,088	1,140	,180	,026	,036	,040	,180	,220	,046	,440	,003	,030	,38							
114209 ✓	,085	1,190	,190	,023	,033	,042	,170	,200	,046	,470	,003	,029	,38							
114213 ✓	,066	1,200	,180	,035	,029	,042	,220	,210	,051	,480	,003	,042	,37							
114214 ✓	,108	1,150	,200	,022	,030	,038	,170	,230	,052	,450	,003	,029	,40							
114216 ✓	,093	1,190	,180	,026	,036	,043	,190	,210	,044	,470	,003	,037	,39							