

ArcelorMittal Olaberria, S.L.

Long Carbon Steel Europe

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Guipúzcoa)

TELEF. (943) 80.50.00 - FAX (943) 88.04.04



QUALITY CERTIFICATE

OLA P-21007

DISCHARGE ADDRESS		CUSTOMER	
Plesa Anahuac Y Cias, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO		Plesa Anahuac Y Cias, S.A. de C.V. Av. Valle de las Alamedas 66-O Col. S. Francisco Chilpan, Tul MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELORMITTAL OLABERRIA, S.L. CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	TOLTECA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	E-29910	1700007247	31/03/2008

Material: WF Vigas,

El exportador de los productos incluidos en el presente documento, Autorización aduanera no.

ARCELORMITTAL OLABERRIA S.L. ES/20/0040/03

Declara que, salvo indicación en sentido contrario, estos productos gozan de un origen preferencial ESPAÑA

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+/ROJO							
WF BEAMS 10x12	40'	23	20	460	4355	100.165	116219,116220,116221,116222,116224,116225
WF BEAMS 12x14	40'	22	18	396	4571	100.562	116045,116046,116047,116048,116049,116050,116051,116052,116054,116055,116077

TOTAL BUNDLES 45

TOTAL WEIGHT 200.727 Kg.

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
B03													
116045	,082	1,150	,180	,015	,029	,001	,110	,160	,031	,440	,021	,022	,34
116046	,082	1,200	,180	,013	,022	,001	,110	,160	,029	,390	,026	,022	,35
116047	,096	1,160	,180	,012	,016	,001	,110	,170	,030	,390	,021	,022	,35
116048	,104	1,230	,160	,015	,021	,001	,110	,210	,036	,400	,024	,026	,38
116049	,107	1,240	,170	,016	,028	,003	,210	,260	,056	,380	,029	,026	,41
116050	,090	1,210	,170	,015	,028	,001	,180	,210	,046	,360	,023	,028	,38
116051	,092	1,160	,160	,012	,019	,001	,140	,160	,039	,310	,021	,022	,35
116052	,110	1,130	,190	,015	,016	,001	,130	,180	,038	,330	,017	,032	,37
116054	,089	1,190	,170	,035	,022	,002	,150	,140	,031	,360	,021	,023	,36

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	C	Mn	SI	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
B06																	
116055	,086	1,160	,180	,022	,025	,002	,140	,140	,031	,350	,019	,020	,35				
116077	,094	1,140	,170	,015	,026	,040	,150	,190	,041	,440	,003	,034	,37				
116219	,114	1,130	,200	,018	,024	,001	,210	,190	,040	,470	,017	,042	,40				
116220	,095	1,120	,170	,019	,030	,001	,180	,190	,042	,430	,019	,039	,37				
116221	,093	1,070	,160	,015	,015	,036	,160	,220	,046	,360	,003	,036	,36				
116222	,116	1,150	,200	,016	,025	,040	,160	,240	,048	,370	,003	,045	,40				
116224	,095	1,150	,200	,012	,021	,037	,130	,210	,045	,450	,003	,052	,37				
116225	,106	1,190	,190	,021	,024	,040	,130	,210	,033	,380	,003	,068	,38				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-10x12	116219	397	387	541	549	21,6	20,9
W-10x12	116220	365	365	539	536	22,1	21,6
W-10x12	116221	387	385	548	535	21,3	20,9
W-10x12	116222	387	371	539	537	21,4	21,3
W-10x12	116224	389	386	549	532	21,3	20,8
W-10x12	116225	393	379	546	534	22,7	22,6
W-12x14	116045	409	405	539	553	21,1	21,
W-12x14	116046	402	396	542	535	22,1	21,1
W-12x14	116047	417	401	543	537	21,4	20,9
W-12x14	116048	402	397	543	536	21,9	21,
W-12x14	116049	401	393	549	551	21,3	21,
W-12x14	116050	405	398	549	527	21,2	20,9
W-12x14	116051	402	398	543	536	21,9	21,
W-12x14	116052	403	389	548	544	21,5	20,8
W-12x14	116054	402	396	542	536	21,2	20,9
W-12x14	116055	396	388	543	539	21,4	21,2
W-12x14	116077	422	416	549	547	21,4	20,6

17 análisis

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

Z01

Luis María Lakunza