



QUALITY CERTIFICATE

OLA P-19994

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
ARCELOMITTAL 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	LERICI STAR
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	E-29017	5373	31/10/2007

Material: WF Vigas,

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

ARCELOMITTAL 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'	34	20	680	4355	148.070	113290,113328,113329,113330,113331,113332,113333,113334,113335,113375,113376,113378,113380,113381
WF BEAMS 16x26	40'	71	6	426	2830	200.930	113291,113292,113293,113294,113295,113329

TOTAL BUNDLES **105** TOTAL WEIGHT **349.000 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
113290	,095	1,210	,180	,015	,020	,002	,110	,190	,033	,370	,022	,035	,36
113291	,090	1,180	,200	,017	,019	,002	,140	,170	,033	,410	,021	,037	,36
113292	,091	1,190	,170	,015	,019	,002	,110	,200	,034	,380	,022	,028	,36
113293	,078	1,230	,170	,020	,017	,002	,130	,210	,031	,410	,023	,023	,36
113294	,081	1,200	,180	,019	,029	,001	,130	,190	,032	,440	,020	,023	,36
113295	,099	1,220	,210	,020	,027	,001	,120	,200	,032	,430	,022	,026	,37
113328	,080	1,150	,170	,014	,031	,001	,110	,190	,033	,360	,015	,031	,34
113329	,078	1,230	,160	,011	,026	,003	,110	,170	,033	,340	,019	,022	,35
113330	,079	1,200	,160	,016	,032	,001	,130	,200	,030	,340	,018	,026	,35
113331	,082	1,200	,170	,019	,028	,001	,130	,190	,032	,370	,020	,030	,35

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



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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV					
B06																		
113332	,084	1,250	,180	,022	,035	,002	,130	,210	,034	,390	,020	,030	,37					
113333	,077	1,170	,190	,022	,018	,001	,130	,210	,036	,370	,017	,035	,34					
113334	,078	1,170	,170	,023	,020	,001	,120	,180	,033	,340	,017	,034	,34					
113335	,094	1,240	,190	,022	,022	,001	,120	,210	,036	,410	,018	,031	,37					
113375	,094	1,180	,200	,013	,017	,002	,100	,170	,022	,330	,019	,022	,35					
113376	,090	1,150	,180	,017	,018	,002	,120	,150	,020	,320	,020	,021	,34					
113378	,116	1,200	,230	,034	,025	,002	,200	,170	,027	,370	,022	,022	,40					
113380	,093	1,230	,180	,024	,032	,002	,180	,180	,028	,430	,027	,058	,38					
113381	,091	1,190	,180	,022	,030	,002	,170	,190	,030	,520	,023	,057	,38					


MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x12	113290	391	389	542	548	21,3	21,
W-10x12	113328	383	374	546	543	22,9	20,1
W-10x12	113329	406	396	543	555	21,3	20,8
W-10x12	113330	384	374	547	544	22,9	20,1
W-10x12	113331	383	384	546	546	22,8	22,9
W-10x12	113332	397	393	539	553	21,5	21,
W-10x12	113333	383	378	542	546	22,8	21,3
W-10x12	113334	380	378	545	544	21,	22,
W-10x12	113335	418	412	545	545	21,4	20,9
W-10x12	113375	423	409	547	542	21,2	21,1
W-10x12	113376	381	377	545	546	21,3	21,
W-10x12	113378	383	381	543	540	21,6	20,9
W-10x12	113380	418	410	544	543	21,6	21,1
W-10x12	113381	381	377	545	546	21,3	21,
W-16x26	113291	419	413	549	543	21,3	21,2
W-16x26	113292	404	402	547	540	21,4	21,1
W-16x26	113293	395	379	499	499	21,1	20,9
W-16x26	113294	427	415	544	555	21,2	21,
W-16x26	113295	424	408	549	541	21,4	21,3
W-16x26	113329	405	389	545	539	21,6	21,

19 análisis

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

B06: Marca APO

Z01


 Luis María Lakunza