

ArcelorMittal Gipuzkoa, S.L.U.

ArcelorMittal Europe – Long Products

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Guipúzcoa)

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



ER-0036/1992



MILL TEST CERTIFICATE

OLA P-57182

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 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	ATLANTICBORG(Veracruz)
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	E-61420/1700025835	26191	21/12/2017

Material: "WF-PERFILES DE ACERO AL CARBONO LAMINADO EN CALIENTE"

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

ARCELORMITTAL GUIPUZKOA, S.L.U. 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
+/RED							
WF BEAMS 10x26	40'	1	6	6	2830	2.830	177217
WF BEAMS 12x40	40'	2	5	10	3629	7.258	177587
WF BEAMS 12x40	40'	5	5	25	3629	18.145	177588
WF BEAMS 14x22	40'	1	9	9	3592	3.592	177259
WF BEAMS 14x22	40'	2	9	18	3592	7.184	177260
WF BEAMS 14x22	40'	1	9	9	3592	3.592	177273
WF BEAMS 14x22	40'	4	9	36	3592	14.368	177288
WF BEAMS 14x22	40'	6	9	54	3592	21.552	177289
WF BEAMS 14x26	40'	1	9	9	4245	4.245	177210
WF BEAMS 21x73	40'	6	4	24	5298	31.788	177664
WF BEAMS 21x83	40'	8	3	24	4518	36.144	177665
WF BEAMS 24x55	40'	2	5	10	4990	9.980	177605
WF BEAMS 24x55	40'	4	5	20	4990	19.960	177606
WF BEAMS 24x55	40'	9	5	45	4990	44.910	177607
WF BEAMS 24x55	40'	10	5	50	4990	49.900	177608
WF BEAMS 24x55	40'	5	5	25	4990	24.950	177609
WF BEAMS 24x62	40'	9	4	36	4500	40.500	177591
WF BEAMS 24x62	40'	3	4	12	4500	13.500	177592

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 24x62	40'	1	4	4	4500	4.500	177598
WF BEAMS 24x68	40'	4	4	16	4935	19.740	177579
WF BEAMS 24x68	40'	5	4	20	4935	24.675	177580
WF BEAMS 24x68	40'	5	4	20	4935	24.675	177582
WF BEAMS 24x76	40'	3	3	9	4137	12.411	177593
WF BEAMS 24x76	40'	2	3	6	4137	8.274	177617

TOTAL BUNDLES 99

TOTAL WEIGHT 448.673 Kg.

A02 EN 10204/3.1

CSA G40.21 50W/ASTM A572 G50/A992/A6-16a

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
B03																			
177210	,070	1,020	,200	,020	,019	,050	,160	,150	,036	,380	,008	,019	,005	,32					
177217	,068	1,030	,190	,031	,020	,048	,150	,150	,029	,400	,009	,025	,003	,32					
177259	,052	1,010	,160	,023	,023	,051	,230	,160	,027	,360	,010	,021	,003	,32					
177260	,067	1,090	,170	,022	,022	,053	,210	,150	,031	,330	,007	,025	,004	,34					
177273	,070	1,040	,180	,016	,022	,050	,130	,140	,024	,370	,007	,023	,003	,32					
177288	,060	1,050	,200	,018	,023	,052	,180	,160	,043	,320	,008	,022	,003	,32					
177289	,063	1,020	,180	,017	,022	,051	,190	,130	,052	,360	,009	,018	,003	,32					
177579	,069	1,050	,210	,021	,027	,051	,150	,130	,034	,360	,007	,023	,003	,32					
177580	,103	,990	,150	,020	,017	,052	,120	,140	,027	,380	,005	,023	,004	,34					
177582	,075	1,030	,190	,016	,022	,055	,150	,120	,035	,320	,003	,025	,004	,32					
177587	,059	1,010	,190	,017	,019	,053	,160	,170	,047	,330	,005	,017	,005	,31					
177588	,065	,990	,200	,015	,020	,052	,110	,160	,036	,360	,005	,023	,005	,30					
177591	,095	1,140	,230	,028	,022	,051	,200	,180	,043	,350	,005	,024	,005	,38					
177592	,088	1,030	,190	,020	,018	,052	,150	,160	,037	,360	,004	,023	,004	,34					
177593	,058	1,020	,190	,021	,023	,049	,150	,150	,032	,350	,006	,024	,003	,31					
177598	,101	1,050	,200	,021	,019	,050	,140	,140	,034	,350	,005	,027	,004	,35					
177605	,072	1,050	,210	,031	,024	,052	,140	,130	,030	,370	,005	,023	,005	,32					
177606	,074	1,030	,180	,028	,026	,048	,150	,130	,026	,360	,009	,022	,003	,32					
177607	,073	1,030	,200	,019	,020	,051	,120	,120	,025	,340	,008	,021	,003	,31					
177608	,089	,990	,190	,023	,017	,052	,140	,180	,030	,440	,005	,021	,004	,34					
177609	,079	1,020	,190	,024	,020	,054	,130	,130	,026	,440	,005	,025	,004	,33					
177617	,103	1,050	,190	,028	,020	,049	,110	,150	,027	,330	,003	,021	,004	,35					

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x26	177217	416	399	545	535	24,8	24,
W-12x40	177587	407	397	501	493	23,	22,6
W-12x40	177588	413	397	501	499	23,2	22,6
W-14x22	177259	419	411	544	521	22,7	22,
W-14x22	177260	423	414	538	525	22,7	22,5
W-14x22	177273	424	420	531	521	22,5	22,1
W-14x22	177288	421	413	547	543	22,7	22,2
W-14x22	177289	409	442	498	553	23,9	22,9

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		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-14x26	177210	421	413	541	521	22,4	21,9
W-24x55	177605	414	410	518	511	23,2	22,5
W-24x55	177606	416	404	525	503	22,9	22,7
W-24x55	177607	436	430	538	538	23,	22,7
W-24x55	177608	449	440	545	537	23,1	22,4
W-24x55	177609	438	428	549	539	23,1	22,7
W-24x62	177591	450	444	566	564	22,7	21,9
W-24x62	177592	419	449	568	555	23,1	22,8
W-24x62	177598	393	391	494	490	23,2	22,8
W-24x68	177579	408	401	509	504	23,6	23,4
W-24x68	177580	427	411	533	515	23,9	23,5
W-24x68	177582	419	413	532	514	24,1	23,3
W-24x76	177593	413	401	517	495	23,4	22,9
W-24x76	177617	426	416	525	511	23,7	23,3

22 análisis

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

B06: Marca AMO

Responsable del Departamento de Calidad Z01

Jose Maria Galindo
 ArcelorMittal Gipuzkoa, S.L.U.