

ArcelorMittal Gipuzkoa, S.L.U.
 Long Carbon Europe
 CARRETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Guipúzcoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



MILL TEST CERTIFICATE

OLA P-29024

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	ADRIATICBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-39602 / 1700013549	11367	09/12/2011

Material: WF Vigas,

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

ARCELORMITTAL GIPUZKOA, 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	PIEGES BUNDLES	TOTAL PIEGES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+/RED							
WF BEAMS 10x30	40'	18	8	144	4382	78.880	134988,134989
WF BEAMS 12x30	40'	23	8	184	4411	101.455	134880,134881,134882, 134883,134884
WF BEAMS 12x35	40'	20	8	160	5144	102.886	134876,134877,134878
WF BEAMS 14x30	40'	18	8	144	4416	79.484	134700,134702
WF BEAMS 14x34	40'	16	8	128	5022	80.351	134161,134700,134701
WF BEAMS 21x44	40'	15	5	75	4069	61.036	134784,134804,134805, 134806,134807

TOTAL BUNDLES 110

TOTAL WEIGHT 504.092 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
<small>B03</small>													
134161	,113	1,270	,210	,024	,015	,036	,180	,180	,042	,430	,005	,045	,42
134700	,090	1,210	,180	,027	,014	,041	,140	,140	,013	,410	,013	,037	,37
134701	,091	1,180	,200	,030	,015	,046	,140	,140	,014	,400	,006	,042	,36
134702	,097	1,190	,210	,039	,020	,035	,160	,160	,021	,400	,003	,040	,38
134784	,100	1,150	,180	,024	,009	,037	,140	,170	,024	,380	,010	,046	,37
134804	,103	1,240	,220	,021	,026	,039	,130	,180	,030	,430	,003	,042	,39
134805	,076	1,180	,160	,018	,031	,032	,120	,180	,024	,380	,007	,029	,35
134806	,110	1,210	,200	,022	,020	,045	,130	,190	,023	,400	,017	,026	,39

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	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
B06													
134807	,120	1,160	,210	,024	,019	,047	,130	,160	,016	,340	,003	,048	,39
134876	,075	1,180	,250	,019	,022	,041	,090	,200	,035	,370	,010	,038	,34
134877	,095	1,190	,250	,020	,028	,044	,130	,240	,040	,350	,005	,047	,38
134878	,086	1,260	,180	,016	,019	,041	,090	,230	,040	,350	,012	,028	,37
134880	,075	1,300	,200	,024	,032	,042	,120	,160	,024	,390	,012	,044	,37
134881	,089	1,200	,200	,024	,027	,039	,120	,180	,029	,410	,003	,036	,37
134882	,096	1,190	,200	,027	,025	,038	,140	,150	,027	,420	,007	,038	,37
134883	,095	1,180	,200	,026	,020	,039	,100	,160	,024	,370	,004	,046	,36
134988	,092	1,140	,190	,017	,031	,038	,100	,170	,022	,370	,004	,036	,35
134989	,113	1,290	,210	,018	,024	,042	,140	,180	,031	,340	,004	,037	,41

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B17	B06	C11		C12		C13	
W-10x30	134988	420	404	603	585	22,4	21,8
W-10x30	134989	416	404	583	565	22,5	21,8
W-12x30	134880	388	386	542	532	22,3	22,1
W-12x30	134881	393	379	553	535	22,3	21,8
W-12x30	134882	390	380	550	530	23,1	22,6
W-12x30	134883	392	386	562	548	22,7	22,5
W-12x35	134876	389	382	535	525	22,1	21,8
W-12x35	134877	395	389	559	539	22,5	21,9
W-12x35	134878	387	380	537	537	22,3	21,7
W-14x30	134700	379	375	543	529	24,3	24,6
W-14x30	134702	382	377	545	529	22,8	22,8
W-14x34	134161	378	368	563	563	22,4	23,4
W-14x34	134701	432	419	541	532	22,4	21,9
W-21x44	134784	418	406	545	531	22,7	22,4
W-21x44	134804	423	407	547	543	22,8	22,2
W-21x44	134805	423	421	540	520	22,9	22,2
W-21x44	134806	437	420	533	521	23,1	22,8
W-21x44	134807	430	418	549	539	22,9	22,1

18 análisis

Z01

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

B06: Marca AMO

Ángel Martínez de Treviño