

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-30234

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	HANSEN SCAN
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-40739 / 1700014083	12160	29/02/2012

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	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+/RED							
WF BEAMS 8x40	40'	1	4	4	2903	2.903	135596
WF BEAMS 8x28	40'	1	10	10	5080	5.080	135607
WF BEAMS 14x48	40'	1	2	2	1742	1.742	135709
WF BEAMS 16x40	40'	2	5	10	3629	7.258	135704
WF BEAMS 16x40	40'	1	2	2	1452	1.452	135703
WF BEAMS 21x57	40'	1	5	5	5171	5.171	135767,135768
WF BEAMS 21x73	40'	1	2	2	2649	2.649	135767
WF BEAMS 24x55	40'	6	5	30	4990	29.940	136858,136859
WF BEAMS 24x62	40'	13	4	52	4500	58.500	136856,136857

TOTAL BUNDLES 27 TOTAL WEIGHT 114.695 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	
135596		,109	1,270	,170	,019	,022	,001	,090	,140	,023	,380	,022	,041	,38	
135607		,079	1,320	,170	,025	,035	,001	,130	,180	,023	,440	,023	,039	,37	
135703		,086	1,290	,190	,016	,026	,005	,100	,220	,049	,460	,022	,055	,38	
135704		,094	1,290	,170	,017	,029	,005	,090	,180	,046	,400	,024	,043	,38	
135709		,076	1,180	,160	,018	,028	,042	,080	,180	,039	,510	,007	,052	,35	

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV					
<small>B06</small>																		
135767	,084	1,260	,170	,021	,022	,004	,110	,150	,027	,450	,023	,060	,36					
135768	,085	1,260	,190	,019	,024	,004	,110	,160	,031	,390	,023	,059	,36					
136856	,095	1,170	,210	,016	,020	,042	,160	,270	,052	,380	,009	,045	,38					
136857	,079	1,170	,200	,018	,027	,041	,120	,210	,044	,380	,005	,044	,35					
136858	,115	1,170	,190	,017	,017	,039	,160	,250	,053	,380	,006	,054	,40					
136859	,104	1,190	,200	,023	,023	,039	,210	,240	,059	,320	,006	,044	,40					
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES																
		ReH MPa		Rm MPa		A% LO=8"												
<small>B11</small>	<small>B06</small>	<small>C11</small>		<small>C12</small>		<small>C13</small>												
W-14x48	135709	407	391	530	522	22,8	22,											
W-16x40	135703	368	364	552	542	22,4	22,2											
W-16x40	135704	368	358	538	518	22,8	21,9											
W-21x57	135767	387	377	559	545	22,7	22,											
W-21x57	135768	378	370	544	540	22,4	22,2											
W-21x73	135767	383	374	534	524	24,4	23,9											
W-24x55	136858	421	412	552	534	23,1	22,9											
W-24x55	136859	422	415	534	542	22,7	22,1											
W-24x62	136856	418	410	535	519	23,1	22,6											
W-24x62	136857	421	411	557	551	23,1	22,9											
W-8x28	135607	390	381	552	534	23,1	22,7											
W-8x40	135596	384	376	561	553	22,1	22,1											

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11 análisis

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

EMAL

Ángel Martínez de Treviño