

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-29023

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-39132 / 1700013191	10996	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	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+/RED							
WF BEAMS 21x44	40'	15	5	75	3992	59.880	134804,134805,134807,134808
WF BEAMS 21x50	40'	4	5	20	4536	18.144	134801,134802
WF BEAMS 21x57	40'	4	5	20	5171	20.684	134810,134811
WF BEAMS 24x55	40'	12	5	60	4990	59.880	134791,134792,134793,134797,134798
WF BEAMS 24x62	40'	17	4	68	4500	76.500	134789,134794,134795,134796

TOTAL BUNDLES 52 TOTAL WEIGHT 235.088 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
B03													
134789	,094	1,190	,200	,021	,023	,038	,110	,180	,034	,380	,005	,052	,37
134791	,107	1,190	,210	,031	,017	,038	,150	,170	,025	,410	,006	,046	,39
134792	,102	1,220	,200	,022	,024	,037	,120	,180	,026	,340	,006	,043	,38
134793	,085	1,140	,200	,027	,021	,038	,150	,170	,033	,370	,003	,045	,36
134794	,104	1,170	,200	,016	,018	,040	,120	,170	,024	,330	,004	,032	,37
134795	,102	1,120	,210	,023	,015	,045	,130	,190	,041	,340	,003	,042	,37
134796	,115	1,220	,210	,025	,017	,043	,120	,170	,026	,340	,007	,041	,39
134797	,128	1,170	,200	,031	,015	,039	,150	,150	,029	,340	,005	,043	,40
134798	,092	1,200	,210	,028	,029	,038	,130	,160	,025	,360	,003	,047	,37

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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> 134801	,109	1,230	,190	,023	,027	,043	,160	,200	,035	,420	,004	,040	,40				
134802	,123	1,160	,210	,028	,018	,037	,170	,180	,024	,400	,005	,037	,40				
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				
134807	,120	1,160	,210	,024	,019	,047	,130	,160	,016	,340	,003	,048	,39				
134808	,093	1,150	,210	,031	,022	,044	,150	,190	,028	,390	,003	,053	,37				
134810	,114	1,310	,220	,028	,019	,048	,150	,190	,032	,380	,010	,047	,42				
134811	,098	1,200	,200	,029	,021	,038	,140	,190	,021	,310	,015	,051	,37				

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-21x44	134804	423	407	547	543	22,8	22,2
W-21x44	134805	423	421	540	520	22,9	22,2
W-21x44	134807	430	418	549	539	22,9	22,1
W-21x44	134808	409	415	525	538	23,5	23,9
W-21x50	134801	418	418	539	535	22,1	22,
W-21x50	134802	414	412	539	537	23,2	22,7
W-21x57	134810	420	404	533	511	22,5	22,5
W-21x57	134811	416	410	564	542	22,4	21,7
W-24x55	134791	422	413	525	523	22,3	22,
W-24x55	134792	414	408	550	532	23,1	22,8
W-24x55	134793	417	419	520	522	22,9	24,5
W-24x55	134797	426	412	541	525	23,1	22,4
W-24x55	134798	426	416	548	536	23,2	22,8
W-24x62	134789	408	411	523	531	22,9	23,4
W-24x62	134794	411	408	523	540	24,1	23,3
W-24x62	134795	415	415	550	540	22,5	21,7
W-24x62	134796	413	407	544	522	22,2	22,

17 análisis

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

B06: Marca AMO

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EMAL

Ángel Martínez de Treviño