

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-29065**

DISCHARGE ADDRESS		CUSTOMER	
GRUPO COLLADO, S.A. DE C.V. GAVILAN # 200, COL. EL MORAL IZTAPALAPA MEXICO		Salzgitter Mannesmann Intern. GmbH SCHWANNSTRASSE, 12 DUESSELDORF ALEMANIA	
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-39576 / 1700013459	315/10465 - LOT 2	09/12/2011

Material: WF Vi gas,

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
+ / GREEN / WHITE							
WF BEAMS 8x18	40´	9	14	126	4573	41.157	134947,134950
WF BEAMS 8x21	40´	9	12	108	4572	41.148	134947,134948,134949
WF BEAMS 10x12	40´	8	18	144	3919	31.352	134964,134966,134970
WF BEAMS 10x15	40´	6	18	108	4898	29.388	134959,134997
WF BEAMS 10x19	40´	4	14	56	4827	19.308	134908,134910
WF BEAMS 10x22	40´	6	12	72	4790	28.740	134993
WF BEAMS 10x26	40´	1	2	2	943	943	133841
WF BEAMS 10x26	40´	6	10	60	4717	28.302	134990,134991
WF BEAMS 10x30	40´	7	8	56	4355	30.485	133865,134989,135012
WF BEAMS 12x14	40´	4	18	72	4571	18.284	133899,133901,134787
WF BEAMS 12x16	40´	4	18	72	5225	20.900	134796
WF BEAMS 12x19	40´	6	14	84	4827	28.962	134801,134802,134803, 135114,135115
WF BEAMS 12x30	40´	7	8	56	4355	30.485	134881,134882,134883, 134884
WF BEAMS 12x35	40´	6	8	48	5081	30.486	134877,134878
WF BEAMS 12x40	40´	7	6	42	4355	30.485	134965,134967,134968
WF BEAMS 12x45	40´	6	6	36	4899	29.394	134969,134970
WF BEAMS 12x50	40´	7	6	42	5443	38.101	134972,134974,134975, 134976

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV				
<i>B08</i>																	
134968	,088	1,150	,200	,026	,025	,040	,160	,180	,023	,430	,010	,043	,36				
134969	,088	1,150	,190	,029	,025	,035	,140	,170	,019	,380	,005	,049	,36				
134970	,089	1,160	,200	,019	,034	,043	,110	,160	,022	,340	,007	,044	,35				
134972	,125	1,130	,210	,027	,023	,039	,180	,190	,026	,360	,007	,041	,40				
134974	,096	1,100	,170	,021	,032	,036	,120	,230	,025	,340	,003	,048	,35				
134975	,115	1,070	,170	,022	,013	,039	,160	,250	,038	,400	,003	,046	,38				
134976	,088	1,250	,200	,031	,026	,044	,160	,170	,027	,420	,005	,043	,38				
134989	,113	1,290	,210	,018	,024	,042	,140	,180	,031	,340	,004	,037	,41				
134990	,088	1,290	,190	,019	,022	,043	,110	,160	,030	,390	,011	,039	,38				
134991	,094	1,270	,200	,020	,027	,042	,100	,150	,021	,400	,007	,037	,37				
134993	,073	1,120	,190	,028	,027	,039	,150	,170	,024	,340	,004	,036	,34				
134997	,101	1,190	,180	,026	,029	,041	,170	,160	,023	,410	,016	,048	,38				
135012	,084	1,260	,220	,027	,027	,038	,110	,180	,029	,450	,003	,041	,37				
135114	,103	1,270	,180	,022	,021	,001	,140	,150	,021	,420	,028	,041	,39				
135115	,110	1,220	,170	,018	,025	,001	,140	,160	,021	,430	,029	,047	,39				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
<i>B11</i>	<i>B08</i>	<i>C11</i>		<i>C12</i>		<i>C13</i>	
W-10x12	134964	432	426	566	564	23,1	22,2
W-10x12	134966	429	413	583	557	22,5	22,
W-10x12	134970	408	398	565	561	22,3	22,
W-10x15	134959	407	403	577	567	22,1	22,
W-10x15	134997	413	403	582	564	22,2	21,9
W-10x19	134908	398	386	532	521	22,2	21,9
W-10x19	134910	427	425	567	555	22,5	21,8
W-10x22	134993	443	434	565	563	22,5	21,8
W-10x26	133841	391	389	530	526	22,3	22,3
W-10x26	134990	405	391	560	544	22,7	22,1
W-10x26	134991	399	395	565	555	22,8	22,
W-10x30	134989	416	404	583	565	22,5	21,8
W-10x30	135012	396	396	530	536	25,3	27,
W-12x14	133899	384	376	570	570	22,6	22,3
W-12x14	133901	405	403	599	585	23,3	22,7
W-12x14	134787	391	391	540	540	26,	26,
W-12x16	134796	414	410	562	550	22,3	21,9
W-12x19	134801	419	409	548	540	22,7	22,4
W-12x19	134802	416	404	544	533	23,	22,8
W-12x19	134803	405	412	533	541	23,1	23,4
W-12x19	135114	388	386	553	543	22,1	22,
W-12x19	135115	406	393	556	542	22,4	21,9
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-12x30	134884	391	393	533	530	22,2	22,8
W-12x35	134877	395	389	559	539	22,5	21,9
W-12x35	134878	387	380	537	537	22,3	21,7
W-12x40	134965	404	402	523	515	23,2	22,5

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		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-12x40	134967	397	395	527	520	23,3	22,5
W-12x40	134968	399	389	540	526	23,	22,6
W-12x45	134969	411	399	542	524	22,4	21,9
W-12x45	134970	408	406	545	527	22,4	21,9
W-12x50	134972	417	403	547	536	22,3	21,7
W-12x50	134974	418	414	553	535	22,2	22,
W-12x50	134975	413	396	546	544	22,2	21,9
W-12x50	134976	423	415	552	543	22,6	21,7
W-14x30	134702	382	377	545	529	22,8	22,8
W-14x30	134703	378	380	544	530	24,1	24,9
W-14x34	134700	386	388	550	547	22,1	22,5
W-14x38	134160	388	378	531	517	26,2	25,
W-14x38	134699	385	388	548	551	22,5	23,1
W-16x31	134146	425	429	551	562	22,6	22,5
W-16x45	134549	428	410	538	524	22,8	22,1
W-18x71	134119	386	384	528	505	22,8	22,5
W-8x18	134947	397	393	565	555	22,2	21,8
W-8x18	134950	393	393	539	529	22,2	21,9
W-8x21	134947	403	389	550	546	22,4	21,7
W-8x21	134948	398	396	557	555	22,5	21,7
W-8x21	134949	392	390	552	530	22,	22,

48 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