

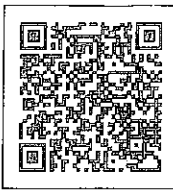
ArcelorMittal Gipuzkoa, S.L.U.

Long Carbon Europe

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Gipúzcoa)

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



MILL TEST CERTIFICATE

OLA P-38460

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 (Gipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	ALAMOSBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-45898 / 1700017408	16883	31/12/2013

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 8x21	40'	1	5	5	1905	1.905	146839
WF BEAMS 8x21	40'	13	12	156	4572	59.436	148045,148046
WF BEAMS 8x35	40'	8	8	64	5081	40.648	147536
WF BEAMS 8x40	40'	14	6	84	4355	60.970	147511,147512,148196, 148244,148245
WF BEAMS 10x12	40'	1	16	16	3484	3.484	145598
WF BEAMS 10x12	40'	14	18	252	3919	54.866	148004
WF BEAMS 10x19	40'	17	14	238	4827	82.059	147919,147930,147931, 147932,147933
WF BEAMS 10x22	40'	21	12	252	4790	100.590	146158,147870,147871, 147872
WF BEAMS 12x19	40'	12	14	168	4827	57.924	147871,147877,147878, 147879
WF BEAMS 12x22	40'	13	12	156	4790	62.270	147885,147886
WF BEAMS 12x26	40'	13	10	130	4717	61.321	147861,147862,147863
WF BEAMS 12x30	40'	14	8	112	4355	60.970	147858,147859,147860
WF BEAMS 12x35	40'	12	8	96	5081	60.972	147852,147853
WF BEAMS 12x40	40'	5	6	30	4355	21.775	146442,146584
WF BEAMS 14x22	40'	17	12	204	4790	81.430	147859,147862,147865
WF BEAMS 14x74	40'	1	4	4	5371	5.371	146452
WF BEAMS 16x36	40'	24	5	120	3266	78.384	147162,148312,148313

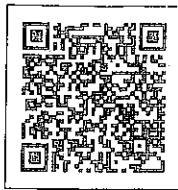
ArcelorMittal Gipuzkoa, S.L.U.

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-38460

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 16x40	40'	33	5	165	3629	119.757	148324,148325
WF BEAMS 16x50	40'	7	5	35	4536	31.752	148319
WF BEAMS 16x45	40'	15	5	75	4082	61.230	148321
WF BEAMS 18x40	40'	18	6	108	4355	78.390	147731,147733
WF BEAMS 18x50	40'	22	4	88	3629	79.838	147703
WF BEAMS 18x50	40'	1	2	2	1814	1.814	147128
WF BEAMS 18x65	40'	13	4	52	4717	61.321	144486,144487,145804,147692,147693
WF BEAMS 21x44	40'	30	5	150	3992	119.760	147465,147466,147467,147469,147470,147471,147472
WF BEAMS 21x62	40'	7	4	28	4500	31.500	147442,148399,148400
WF BEAMS 21x68	40'	15	4	60	4935	74.025	147442,148402,148403
WF BEAMS 24x55	40'	16	5	80	4990	79.840	148367,148368,148369,148379,148380
WF BEAMS 24x68	40'	27	3	81	3701	99.927	148377,148378
WF BEAMS 24x76	40'	10	3	30	4137	41.370	146981,148373
WF BEAMS 24x84	40'	17	3	51	4572	77.724	148369,148370,148374
WF BEAMS 24x94	40'	8	3	24	5117	40.936	145803,147539

TOTAL BUNDLES 439

TOTAL WEIGHT 1.893.559 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03

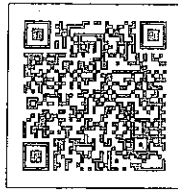
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Long Carbon Europe

CARRETERA MADRID - IRUN, KM. 419

20212 OLABERRIA (Guipúzcoa)

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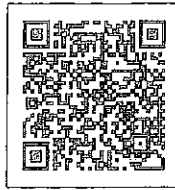


MILL TEST CERTIFICATE

OLA P-38460

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV								
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV									
144486	,077	1,000	,190	,019	,019	,032	,130	,210	,036	,480	,003	,048	,002	,33									
144487	,091	1,010	,180	,024	,016	,035	,200	,210	,038	,520	,003	,046	,003	,36									
145803	,082	,970	,190	,019	,020	,037	,130	,180	,022	,430	,003	,032	,003	,32									
145804	,137	1,010	,160	,019	,010	,036	,150	,150	,015	,420	,005	,024	,001	,38									
146158	,088	1,080	,190	,016	,012	,054	,150	,220	,032	,350	,003	,038	,001	,35									
146442	,099	1,040	,180	,016	,022	,037	,340	,400	,102	,320	,003	,059	,002	,42									
146452	,078	1,040	,170	,016	,012	,035	,250	,330	,082	,310	,003	,052	,004	,37									
146584	,096	1,040	,220	,017	,016	,038	,320	,330	,083	,340	,003	,054	,004	,40									
146839	,146	,990	,180	,022	,015	,037	,270	,230	,054	,360	,003	,028	,003	,42									
146981	,073	1,040	,200	,017	,023	,043	,170	,230	,041	,320	,003	,030	,003	,33									
147128	,093	,990	,180	,030	,012	,039	,150	,170	,028	,450	,003	,035	,004	,34									
147162	,093	,980	,180	,022	,022	,035	,190	,140	,032	,330	,005	,033	,002	,34									
147442	,118	1,030	,180	,017	,018	,037	,150	,150	,028	,340	,003	,027	,002	,37									
147465	,083	1,060	,180	,027	,018	,037	,180	,180	,034	,390	,003	,027	,002	,35									
147466	,080	,990	,170	,023	,020	,038	,180	,180	,030	,380	,003	,027	,001	,33									
147467	,103	1,250	,210	,022	,017	,037	,170	,190	,028	,430	,003	,027	,001	,40									
147469	,092	1,000	,180	,023	,023	,039	,170	,180	,029	,400	,003	,027	,002	,34									
147470	,105	1,010	,180	,028	,022	,038	,190	,180	,035	,440	,003	,029	,001	,37									
147471	,091	1,040	,170	,022	,020	,040	,170	,190	,035	,410	,003	,024	,001	,35									
147472	,102	1,030	,200	,024	,019	,042	,170	,230	,040	,420	,003	,019	,004	,37									
147511	,115	1,070	,200	,022	,016	,039	,210	,220	,052	,390	,003	,039	,003	,39									
147512	,105	1,050	,180	,020	,020	,041	,180	,220	,041	,400	,003	,036	,003	,37									
147536	,071	1,040	,170	,019	,024	,040	,140	,240	,042	,400	,004	,042	,001	,33									
147539	,084	1,050	,170	,020	,023	,041	,160	,220	,037	,370	,003	,033	,002	,35									
147692	,089	1,000	,170	,020	,020	,036	,100	,170	,036	,360	,003	,025	,003	,33									
147693	,070	1,040	,200	,021	,021	,036	,110	,170	,037	,340	,003	,020	,002	,31									
147703	,105	,950	,190	,017	,015	,033	,100	,200	,046	,300	,003	,017	,003	,33									
147731	,176	1,110	,190	,029	,012	,042	,270	,230	,038	,340	,003	,035	,002	,47									
147733	,118	1,060	,190	,023	,019	,035	,230	,210	,031	,420	,003	,024	,003	,40									
147852	,081	1,050	,210	,016	,016	,037	,140	,200	,034	,390	,003	,040	,003	,34									
147853	,087	1,040	,190	,022	,014	,037	,130	,170	,029	,400	,003	,037	,002	,34									
147858	,081	,980	,170	,022	,015	,037	,150	,220	,037	,390	,003	,027	,004	,33									
147859	,098	1,000	,190	,019	,017	,035	,150	,240	,041	,420	,003	,034	,004	,35									
147860	,080	1,030	,180	,014	,016	,034	,120	,220	,038	,370	,003	,036	,003	,33									
147861	,071	1,030	,160	,014	,021	,033	,110	,180	,033	,380	,003	,026	,002	,32									
147862	,073	,990	,180	,028	,016	,033	,250	,210	,041	,420	,003	,027	,004	,34									
147863	,095	1,050	,170	,021	,016	,036	,220	,300	,062	,360	,003	,025	,004	,38									
147865	,090	1,030	,180	,017	,023	,036	,100	,170	,032	,370	,003	,028	,002	,33									
147870	,079	1,030	,180	,015	,019	,037	,130	,190	,037	,360	,003	,039	,003	,33									
147871	,075	1,030	,160	,011	,020	,037	,110	,170	,040	,290	,003	,036	,001	,31									
147872	,096	1,030	,190	,015	,015	,035	,130	,170	,044	,260	,003	,043	,004	,34									
147877	,109	1,040	,190	,016	,013	,036	,140	,170	,042	,290	,003	,039	,003	,36									
147878	,089	1,000	,170	,013	,015	,035	,120	,160	,040	,260	,003	,045	,003	,32									
147879	,083	1,050	,190	,017	,020	,036	,120	,190	,052	,300	,003	,044	,003	,33									
147885	,107	1,050	,220	,029	,023	,040	,170	,150	,032	,390	,003	,040	,003	,37									
147886	,097	1,020	,190	,032	,019	,035	,170	,160	,032	,390	,003	,035	,003	,35									
147919	,079	,970	,170	,023	,022	,033	,150	,190	,040	,430	,003	,034	,002	,33									
147930	,092	,980	,190	,023	,018	,035	,150	,190	,038	,390	,003	,041	,003	,34									

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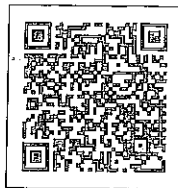
MILL TEST CERTIFICATE

OLA P-38460

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
147931	,087	1,010	,170	,020	,020	,037	,160	,180	,037	,350	,003	,039	,002	,34				
147932	,083	,970	,180	,021	,022	,033	,150	,190	,037	,340	,003	,038	,002	,32				
147933	,096	1,020	,200	,020	,020	,036	,140	,180	,032	,350	,003	,042	,003	,34				
148004	,108	1,010	,200	,025	,020	,041	,210	,190	,041	,400	,003	,038	,004	,37				
148045	,092	1,010	,180	,021	,019	,035	,160	,170	,035	,330	,003	,040	,003	,34				
148046	,124	1,050	,200	,023	,024	,036	,180	,200	,039	,350	,003	,024	,003	,39				
148196	,082	1,000	,180	,021	,018	,039	,180	,180	,033	,400	,003	,028	,004	,34				
148244	,122	1,030	,210	,026	,013	,039	,250	,160	,041	,390	,003	,024	,003	,40				
148245	,117	1,020	,190	,023	,013	,038	,230	,160	,042	,390	,003	,024	,003	,39				
148312	,103	1,040	,200	,025	,016	,035	,250	,200	,053	,370	,003	,031	,004	,38				
148313	,116	1,000	,170	,024	,016	,037	,250	,200	,046	,360	,003	,029	,003	,39				
148319	,104	1,010	,180	,014	,015	,043	,180	,170	,056	,350	,003	,032	,003	,36				
148321	,086	,990	,200	,024	,019	,038	,230	,180	,049	,440	,003	,029	,004	,36				
148324	,085	1,030	,190	,023	,015	,037	,170	,180	,049	,390	,003	,028	,003	,35				
148325	,117	1,030	,190	,026	,016	,038	,170	,170	,044	,390	,003	,032	,003	,38				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO-B"	
B11	B09	C11		C12		C13	
W-10x12	148004	401	389	498	492	23,1	22,9
W-10x19	147919	442	430	550	556	23,6	22,7
W-10x19	147930	441	447	515	497	23,8	23,4
W-10x19	147931	415	411	534	510	24,	23,3
W-10x19	147932	397	391	509	499	21,4	22,8
W-10x19	147933	394	395	559	556	23,3	21,7
W-10x22	146158	443	448	592	577	22,4	21,9
W-10x22	147870	385	375	514	506	22,2	21,9
W-10x22	147871	387	377	501	491	23,	22,8
W-10x22	147872	398	390	520	510	24,2	23,7
W-12x19	147871	410	400	543	546	22,5	22,3
W-12x19	147877	389	375	552	530	23,1	22,7
W-12x19	147878	448	436	592	589	22,4	22,1
W-12x19	147879	379	413	518	535	22,5	23,4
W-12x22	147885	420	404	541	539	23,2	23,2
W-12x22	147886	429	417	552	542	24,2	23,9
W-12x26	147861	384	368	526	514	22,2	22,1
W-12x26	147862	379	376	567	561	22,4	22,
W-12x26	147863	412	373	547	560	23,5	23,6
W-12x30	147858	384	378	513	503	23,2	22,5
W-12x30	147859	411	404	549	530	23,1	22,6
W-12x30	147860	387	373	514	496	22,8	22,3
W-12x35	147852	417	399	533	531	22,7	22,
W-12x35	147853	404	393	532	520	22,3	22,
W-12x40	146442	369	357	576	563	22,8	22,2
W-12x40	146584	381	376	573	564	22,5	21,9
W-14x22	147859	414	402	524	516	22,5	22,1
W-14x22	147862	411	400	521	503	22,2	21,8
W-14x22	147865	407	411	584	569	25,2	24,7

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MILL TEST CERTIFICATE

OLA P-38460

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO="B"	
		c11		c12		c13	
W-14x74	146452	372	385	495	510	26,	27,
W-16x36	147162	415	402	536	529	25,1	24,9
W-16x36	148312	388	374	515	499	22,7	22,
W-16x36	148313	423	411	540	540	22,8	22,3
W-16x40	148324	416	410	550	534	23,1	22,2
W-16x40	148325	415	413	543	535	24,2	24,1
W-16x45	148321	376	369	525	514	23,1	22,6
W-16x50	148319	423	407	547	523	24,5	24,3
W-18x40	147731	443	446	606	604	22,6	22,
W-18x40	147733	445	448	616	610	22,4	21,8
W-18x50	147128	377	376	506	537	22,8	23,2
W-18x50	147703	391	380	518	513	23,1	22,8
W-18x65	144486	418	405	546	536	22,8	21,9
W-18x65	144487	402	390	527	509	26,4	25,4
W-18x65	145804	410	404	548	532	22,3	22,2
W-18x65	147692	384	386	542	557	25,6	23,8
W-18x65	147693	391	383	520	508	24,7	24,6
W-21x44	147465	390	386	521	499	23,7	22,9
W-21x44	147466	396	390	515	493	24,7	24,4
W-21x44	147467	409	399	528	516	23,3	23,2
W-21x44	147469	403	391	524	501	25,4	24,8
W-21x44	147470	415	411	532	520	23,6	22,8
W-21x44	147471	413	395	528	508	23,3	22,6
W-21x44	147472	408	397	519	514	26,8	26,3
W-21x62	147442	383	367	514	498	24,2	23,9
W-21x68	147442	388	374	510	502	27,	26,8
W-24x76	146981	397	387	523	505	24,4	23,8
W-24x94	145803	430	417	573	553	24,5	24,1
W-24x94	147539	415	405	545	543	22,5	22,1
W-8x21	146839	426	411	615	601	22,8	21,9
W-8x21	148045	383	379	508	496	22,5	22,4
W-8x21	148046	438	422	586	580	23,2	22,9
W-8x35	147536	400	406	525	535	23,9	25,5
W-8x40	147511	398	398	541	528	23,5	23,3
W-8x40	147512	409	402	542	524	22,3	21,8
W-8x40	148196	384	390	561	543	24,2	22,3
W-8x40	148244	416	414	549	533	22,6	22,
W-8x40	148245	396	432	563	547	22,	22,

63 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 201

Lorenzo Zabala