

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-39085

DISCHARGE ADDRESS		CUSTOMER	
Aceros del Toro S.A. de C.V. Carretera a Monclova Numero 301 General Escobedo, Nuevo León MEXICO		Aceros del Toro S.A. de C.V. Carretera a Monclova Numero 301 General Escobedo, Nuevo León 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			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		ALTAMIRA	HC EVA MARIE
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-46464 / 1700017659	51646	14/03/2014

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
+/WHITE							
WF BEAMS 18x76	40'	13	3	39	4137	53.781	149511,149512,149513, 149514
WF BEAMS 18x76	40'	1	2	2	2758	2.758	149514
WF BEAMS 10x22	40'	6	12	72	4790	28.740	149135,149136,149137, 149164
WF BEAMS 8x31	40'	4	8	32	4499	17.996	149340,149341
WF BEAMS 14x22	40'	6	12	72	4790	28.740	149129,149131
WF BEAMS 12x30	40'	2	8	16	4355	8.710	149237,149238
WF BEAMS 8x40	40'	3	6	18	4355	13.065	149388
WF BEAMS 12x19	40'	8	14	112	4827	38.616	149239,149243
WF BEAMS 12x14	40'	9	18	162	4571	41.139	149263,149264,149265, 149266
WF BEAMS 10x30	40'	7	8	56	4370	30.590	149153,149154
WF BEAMS 14x30	40'	2	8	16	4355	8.710	149100,149102
WF BEAMS 12x22	40'	2	12	24	4790	9.580	149226
WF BEAMS 14x38	40'	3	6	18	4137	12.411	149118
WF BEAMS 12x35	40'	6	8	48	5081	30.486	149244,149249,149251
WF BEAMS 10x26	40'	4	10	40	4717	18.868	149158
WF BEAMS 21x68	50'	3	3	9	4627	13.881	149606

TOTAL BUNDLES 79

TOTAL WEIGHT 358.071 Kg.

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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	Al	CEV		
149100	,081	1,000	,190	,012	,015	,033	,130	,190	,035	,350	,003	,022	,003	,32			
149102	,102	1,030	,180	,014	,015	,034	,150	,190	,034	,390	,003	,024	,004	,36			
149118	,150	1,450	,220	,016	,029	,042	,130	,240	,044	,310	,003	,026	,001	,47			
149129	,089	1,060	,160	,024	,020	,036	,180	,220	,039	,360	,003	,027	,002	,36			
149131	,112	1,100	,160	,026	,023	,037	,170	,190	,035	,370	,003	,034	,002	,38			
149135	,114	1,040	,170	,022	,018	,038	,130	,230	,039	,340	,003	,037	,001	,37			
149136	,130	1,020	,180	,025	,013	,036	,160	,280	,045	,320	,003	,037	,001	,39			
149137	,107	1,000	,180	,020	,016	,036	,160	,260	,050	,280	,003	,027	,002	,36			
149153	,109	1,040	,190	,032	,019	,035	,200	,180	,031	,460	,003	,044	,003	,38			
149154	,106	1,050	,200	,021	,014	,035	,210	,180	,029	,430	,003	,043	,003	,38			
149158	,098	1,020	,190	,022	,016	,037	,200	,170	,036	,410	,003	,037	,004	,36			
149164	,084	,910	,180	,016	,020	,046	,150	,300	,052	,420	,003	,019	,002	,33			
149226	,141	1,000	,160	,023	,017	,035	,290	,180	,060	,370	,003	,024	,002	,42			
149237	,083	,790	,180	,021	,017	,043	,190	,220	,042	,430	,003	,038	,006	,31			
149238	,086	,840	,170	,018	,023	,043	,200	,230	,041	,390	,003	,040	,001	,32			
149239	,083	,820	,180	,015	,023	,048	,220	,340	,053	,350	,003	,039	,003	,33			
149243	,088	,840	,200	,022	,017	,044	,190	,180	,036	,400	,003	,038	,002	,32			
149244	,133	,850	,180	,024	,015	,042	,180	,220	,047	,450	,003	,055	,004	,37			
149249	,091	,930	,190	,021	,023	,048	,170	,190	,046	,320	,003	,029	,002	,33			
149251	,101	,830	,190	,028	,019	,042	,160	,180	,042	,350	,003	,027	,004	,32			
149263	,082	,820	,210	,018	,010	,045	,150	,150	,037	,370	,003	,035	,002	,30			
149264	,093	,770	,190	,022	,014	,044	,160	,150	,036	,390	,003	,044	,003	,31			
149265	,088	,800	,200	,023	,018	,043	,160	,130	,031	,430	,003	,041	,002	,31			
149266	,105	,800	,180	,019	,013	,042	,130	,150	,030	,350	,003	,045	,001	,31			
149340	,077	,800	,170	,022	,020	,048	,280	,210	,045	,440	,003	,026	,001	,33			
149341	,087	,840	,180	,024	,021	,044	,270	,180	,040	,400	,003	,032	,003	,34			
149388	,084	,820	,190	,021	,019	,044	,200	,200	,043	,370	,003	,032	,003	,32			
149511	,097	,690	,190	,029	,017	,047	,250	,290	,058	,490	,003	,028	,003	,34			
149512	,087	,720	,180	,027	,020	,048	,250	,170	,043	,440	,003	,026	,003	,32			
149513	,091	,720	,190	,030	,018	,049	,250	,270	,050	,360	,003	,034	,004	,32			
149514	,095	,710	,170	,019	,017	,049	,230	,180	,051	,290	,003	,032	,004	,31			
149606	,103	,670	,180	,024	,024	,044	,170	,130	,030	,450	,003	,029	,001	,30			

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B08	C11		C12		C13	
W-10x22	149135	386	373	494	489	22,7	22,1
W-10x22	149136	409	395	513	501	22,5	21,8
W-10x22	149137	412	408	524	506	22,3	21,9
W-10x22	149164	413	395	543	527	23,	22,9
W-10x26	149158	402	391	538	519	22,6	22,
W-10x30	149153	410	395	538	525	22,5	21,8
W-10x30	149154	425	422	568	552	22,4	22,1
W-12x14	149263	416	410	531	531	22,3	22,2
W-12x14	149264	420	412	542	532	22,5	21,7
W-12x14	149265	428	422	554	538	22,5	21,8

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
B11	B06	C11		C12		C13	
W-12x14	149266	426	414	529	523	23,6	23,5
W-12x19	149239	433	423	548	526	22,6	21,8
W-12x19	149243	434	426	545	533	22,6	22,1
W-12x22	149226	421	411	596	572	22,3	22,
W-12x30	149237	405	395	503	495	22,5	21,9
W-12x30	149238	413	413	532	522	22,5	21,8
W-12x35	149244	416	409	551	544	22,2	21,9
W-12x35	149249	441	429	580	560	23,1	22,5
W-12x35	149251	399	390	525	518	22,9	22,4
W-14x22	149129	415	399	530	528	22,2	22,
W-14x22	149131	434	422	571	561	22,6	22,3
W-14x30	149100	383	380	509	504	22,4	22,
W-14x30	149102	400	394	546	523	22,7	21,9
W-14x38	149118	401	410	607	606	22,6	22,
W-18x76	149511	424	414	543	531	22,6	22,3
W-18x76	149512	395	384	522	509	22,8	22,1
W-18x76	149513	402	394	513	498	24,3	23,7
W-18x76	149514	385	383	516	496	23,8	23,5
W-21x68	149606	376	374	505	485	22,9	22,2
W-8x31	149340	400	394	521	500	22,2	22,1
W-8x31	149341	402	388	525	507	22,7	21,8
W-8x40	149388	372	365	498	489	22,7	22,

32 análisis

Z01

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

Lorenzo Zabala

