

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-34279**

DISCHARGE ADDRESS		CUSTOMER	
Ferre Barniedo, S.A. de C.V. Edo. de Mexico San Cristobal Ecatepec, C.P. MEXICO		Ferre Barniedo, S.A. de C.V. Edo. de Mexico San Cristobal Ecatepec, C.P. MEXICO	
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING
ARCELOMITTAL 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
		TAMPICO	AMAZONEBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-43359/1700015906	600599	31/01/2013

Material: WF Vigas,

El exportador de los productos incluidos en el presente documento  
 Autorización aduanera no

ARCELOMITTAL GIPUZKOA, S.L.U. ES/20/0010/03

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
<b>+/WHITE</b>							
WF BEAMS 14x61	40'	4	4	16	4427	17.708	139198,139199,139200, 139206,141614
WF BEAMS 16x26	40'	57	6	342	2830	161.310	142311,142314,142315, 142708,142709,142710, 142711,142712
WF BEAMS 16x40	40'	22	5	110	3629	79.838	142691
WF BEAMS 16x57	40'	31	5	155	5171	160.301	142683,142684,142685, 142696
WF BEAMS 16x77	40'	25	3	75	4191	104.775	140687,140688,140689, 141638,141639,141640
WF BEAMS 16x89	40'	1	3	3	4844	4.844	141638
WF BEAMS 16x100	40'	8	3	24	5443	43.544	140679,140711,141637
WF BEAMS 21x62	40'	35	4	140	4500	157.500	142757,142758,142760
WF BEAMS 21x83	40'	35	3	105	4518	158.130	140978,142741,142742, 142743
WF BEAMS 24x55	40'	32	5	160	4990	159.680	142639,142640,142641, 142646

TOTAL BUNDLES **250** TOTAL WEIGHT **1.047.630 Kg.**

A02 EN 10204/3.1

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

(B01/B02/B03) A03

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													CEV							
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn									
139198	.088	1,130	.170	.018	.020	.042	.110	.150	.030	.390	.004	.035	.35								
139199	.089	1,140	.170	.021	.019	.036	.150	.160	.029	.400	.003	.029	.36								
139200	.100	1,180	.210	.026	.017	.040	.160	.140	.027	.410	.003	.034	.38								
139206	.102	1,150	.200	.016	.021	.041	.110	.170	.041	.360	.003	.038	.37								
140679	.109	1,210	.190	.021	.014	.045	.170	.130	.038	.370	.003	.061	.39								
140687	.094	1,110	.200	.019	.015	.040	.190	.180	.046	.390	.003	.030	.37								
140688	.123	1,150	.210	.022	.008	.046	.200	.190	.047	.440	.003	.050	.42								
140689	.095	1,140	.190	.018	.010	.040	.170	.150	.040	.450	.003	.042	.38								
140711	.119	1,180	.220	.023	.018	.042	.240	.230	.057	.480	.003	.048	.42								
140978	.117	1,120	.200	.018	.012	.041	.150	.140	.033	.420	.003	.039	.38								
141614	.093	1,030	.200	.019	.014	.035	.100	.130	.030	.420	.003	.025	.33								
141637	.084	1,000	.200	.025	.017	.033	.130	.140	.031	.450	.003	.049	.33								
141638	.083	.980	.190	.026	.015	.034	.110	.140	.025	.460	.003	.041	.32								
141639	.087	1,000	.180	.034	.018	.031	.110	.130	.024	.470	.003	.042	.33								
141640	.128	1,030	.170	.027	.010	.035	.130	.130	.027	.440	.003	.037	.38								
142313	.085	1,000	.180	.015	.015	.035	.080	.160	.033	.290	.003	.022	.31								
142314	.083	1,030	.190	.021	.014	.036	.120	.190	.033	.390	.003	.034	.33								
142315	.097	1,030	.200	.029	.011	.036	.200	.180	.042	.470	.003	.045	.37								
142639	.184	1,070	.200	.035	.019	.032	.180	.190	.027	.370	.003	.037	.45								
142640	.100	1,070	.190	.021	.022	.036	.150	.170	.032	.370	.003	.035	.36								
142641	.096	1,010	.170	.025	.018	.033	.140	.170	.032	.330	.003	.047	.34								
142646	.083	1,050	.170	.029	.020	.041	.150	.190	.029	.370	.003	.039	.34								
142683	.084	1,060	.160	.015	.018	.038	.100	.170	.026	.310	.003	.015	.33								
142684	.093	1,010	.200	.019	.023	.035	.120	.190	.041	.310	.003	.022	.33								
142685	.074	.980	.170	.020	.020	.035	.130	.200	.029	.360	.003	.020	.31								
142691	.098	1,160	.230	.019	.025	.036	.120	.200	.030	.470	.003	.034	.37								
142696	.089	1,030	.190	.014	.018	.043	.110	.230	.029	.400	.003	.032	.34								
142708	.096	1,010	.180	.018	.025	.037	.120	.210	.038	.420	.003	.024	.35								
142709	.087	.980	.160	.019	.019	.034	.140	.200	.028	.420	.003	.033	.33								
142710	.080	.990	.170	.018	.015	.037	.130	.200	.030	.380	.003	.028	.32								
142711	.083	.950	.200	.016	.031	.038	.120	.190	.029	.370	.003	.027	.32								
142712	.077	1,160	.190	.014	.028	.037	.090	.170	.020	.380	.003	.025	.34								
142741	.078	1,070	.210	.025	.029	.042	.140	.220	.028	.390	.003	.021	.34								
142742	.074	1,010	.190	.021	.020	.040	.140	.250	.029	.430	.003	.039	.33								
142743	.080	.990	.200	.019	.019	.038	.100	.230	.023	.420	.003	.049	.32								
142757	.072	1,110	.180	.029	.030	.044	.170	.200	.025	.490	.006	.021	.35								
142758	.090	1,130	.240	.024	.032	.044	.150	.180	.025	.470	.008	.026	.37								
142760	.088	1,000	.180	.018	.014	.042	.100	.180	.026	.450	.003	.024	.33								

  

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C17		C12		C13	
W-14x61	139198	398	395	521	503	24,2	23,6
W-14x61	139199	412	404	538	532	24,1	23,6
W-14x61	139200	421	415	547	525	22,7	22,7
W-14x61	139206	404	413	533	539	23,	23,
W-14x61	141614	390	374	512	498	23,3	23,3
W-16x100	140679	410	400	538	536	23,4	23,

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B02	C11		C12		C13	
W-16x100	140711	418	418	574	562	22,7	22,3
W-16x100	141637	365	361	491	490	27,4	26,4
W-16x26	142311	405	400	525	518	23,3	22,8
W-16x26	142314	410	400	511	507	24,1	24,
W-16x26	142315	417	405	530	519	23,6	23,
W-16x26	142708	392	389	508	490	24,3	23,7
W-16x26	142709	413	403	525	508	27,5	27,2
W-16x26	142710	420	411	528	514	23,	22,8
W-16x26	142711	417	409	522	512	24,3	23,5
W-16x26	142712	413	400	521	499	23,3	23,1
W-16x40	142691	448	441	584	564	23,2	23,
W-16x57	142683	379	365	501	485	23,8	22,9
W-16x57	142684	374	372	497	485	23,4	23,3
W-16x57	142685	387	384	507	505	25,	24,4
W-16x57	142696	384	378	512	504	23,2	23,
W-16x77	140687	447	433	570	566	23,1	22,4
W-16x77	140688	396	388	519	505	25,1	24,5
W-16x77	140689	414	404	529	527	22,5	21,8
W-16x77	141638	376	376	495	491	22,5	22,4
W-16x77	141639	421	409	560	552	22,4	21,7
W-16x77	141640	422	418	565	561	22,2	22,
W-16x89	141638	377	375	502	492	22,2	21,9
W-21x62	142757	439	405	554	532	24,9	24,1
W-21x62	142758	380	372	509	491	23,5	22,8
W-21x62	142760	391	381	510	502	23,	22,3
W-21x83	140978	400	389	517	501	24,8	24,1
W-21x83	142741	371	369	495	492	22,3	22,2
W-21x83	142742	379	377	507	497	24,8	24,3
W-21x83	142743	368	368	506	488	22,9	22,6
W-24x55	142639	432	430	576	573	22,6	22,5
W-24x55	142640	406	394	527	515	22,7	21,9
W-24x55	142641	381	365	503	501	25,8	25,4
W-24x55	142646	399	388	523	508	22,7	22,4

## 38 análisis

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

B06: Marca AMO

Z01

Lorenzo Zabala