

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-34828

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
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
		ALTAMIRA	NIKOL H.
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-43359 / 1700015903	600599	31/03/2013

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
+/WHITE							
WF BEAMS 12x26	40'	26	10	260	4717	122.642	143797,143798,143799, 143800,143801,143802, 143803
WF BEAMS 14x61	40'	29	4	116	4427	128.383	143672,143673,143674
WF BEAMS 16x77	40'	13	3	39	4191	54.483	143657,143658
WF BEAMS 16x89	40'	16	3	48	4844	77.504	143650,143651
WF BEAMS 16x100	40'	7	3	21	5443	38.101	143648

TOTAL BUNDLES 91

TOTAL WEIGHT 421,113 Kg.

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)												
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV
143648	.080	.960	.190	.025	.025	.041	.110	.160	.022	.370	.006	.047	.31
143650	.080	1.010	.200	.020	.013	.038	.130	.180	.041	.350	.003	.045	.33
143651	.083	.980	.180	.018	.026	.037	.090	.170	.030	.410	.003	.031	.32
143657	.086	1.020	.160	.017	.011	.038	.120	.190	.024	.370	.006	.023	.33
143658	.084	1.050	.180	.014	.024	.036	.130	.220	.033	.350	.006	.021	.34
143672	.080	.940	.160	.019	.012	.036	.080	.180	.019	.350	.004	.025	.28
143673	.066	.990	.200	.027	.010	.037	.080	.140	.012	.380	.005	.029	.29
143674	.076	.990	.180	.023	.015	.037	.090	.140	.021	.400	.003	.027	.31
143797	.088	1.010	.180	.024	.021	.035	.100	.170	.014	.470	.003	.049	.33

A01

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-34828

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV	
143798	.093	1.030	.180	.032	.019	.040	.130	.170	.013	.480	.003	.055	.34	
143799	.071	.980	.170	.031	.017	.040	.140	.160	.014	.460	.003	.050	.31	
143800	.110	1.130	.220	.037	.012	.074	.140	.150	.012	.450	.003	.060	.38	
143801	.092	1.040	.180	.028	.035	.040	.130	.150	.011	.470	.003	.058	.34	
143802	.079	1.010	.180	.017	.025	.041	.120	.160	.013	.440	.003	.063	.32	
143803	.091	1.040	.180	.031	.018	.043	.140	.150	.013	.470	.006	.057	.34	

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8°	
		C17		C12		C13	
W-12x26	143797	433	420	553	542	22,7	22,1
W-12x26	143798	416	408	542	529	22,6	21,9
W-12x26	143799	418	414	546	528	22,3	22,2
W-12x26	143800	437	430	561	546	22,3	21,8
W-12x26	143801	406	396	534	516	22,6	22,1
W-12x26	143802	407	399	531	526	22,3	21,9
W-12x26	143803	428	415	544	534	22,3	22,2
W-14x61	143672	386	384	506	486	23,1	22,8
W-14x61	143673	397	383	499	494	25,3	24,5
W-14x61	143674	393	391	510	504	23,2	22,9
W-16x100	143648	449	447	549	532	22,4	22,2
W-16x77	143657	397	389	518	506	25,	24,7
W-16x77	143658	420	414	543	521	24,1	23,4
W-16x89	143650	380	377	494	485	26,8	26,3
W-16x89	143651	377	375	508	488	23,5	23,3

15 análisis

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

Z01

Lorenzo Zabala