

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-37154

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 (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	RAMA..
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-45025 / 1700017075	16119 / 16336	30/09/2013

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 8x31	40'	3	8	24	4499	13.497	146477
WF BEAMS 12x40	40'	22	6	132	4355	95.810	146442,146443,146444
WF BEAMS 12x50	40'	7	6	42	5443	38.101	146438,146439
WF BEAMS 21x62	40'	3	4	12	4500	13.500	146506,146507
WF BEAMS 24x55	40'	12	5	60	4990	59.880	146397,146398
WF BEAMS 24x62	40'	13	4	52	4500	58.500	146399,146400

TOTAL BUNDLES

60

TOTAL WEIGHT

279.288 Kg.

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
146397	,093	1,010	,180	,009	,009	,038	,110	,200	,026	,410	,003	,035	,004	,34
146398	,114	1,050	,200	,014	,014	,038	,180	,230	,046	,380	,003	,038	,003	,38
146399	,089	1,000	,200	,014	,018	,050	,210	,240	,036	,430	,003	,030	,003	,36
146400	,094	,980	,180	,011	,013	,032	,160	,230	,037	,350	,003	,024	,003	,34
146438	,080	1,040	,190	,013	,023	,037	,290	,360	,091	,330	,003	,050	,001	,38
146439	,084	1,010	,190	,012	,021	,037	,310	,380	,099	,340	,003	,054	,001	,39
146442	,099	1,040	,180	,016	,022	,037	,340	,400	,102	,320	,003	,059	,002	,42
146443	,094	1,040	,180	,017	,024	,043	,340	,380	,096	,290	,003	,060	,002	,41
146444	,101	1,040	,170	,019	,015	,035	,340	,370	,096	,330	,003	,067	,003	,42

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV	
<small>B09</small>															
146477	,077	1,000	,190	,012	,020	,035	,140	,190	,035	,320	,003	,026	,002	,32	
146506	,088	1,020	,180	,016	,020	,035	,150	,230	,032	,320	,003	,032	,004	,34	
146507	,093	1,010	,180	,013	,020	,034	,130	,210	,035	,300	,003	,030	,003	,34	

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
<small>B11</small>	<small>B08</small>	<small>C11</small>		<small>C12</small>		<small>C13</small>	
W-12x40	146442	369	357	576	563	22,8	22,2
W-12x40	146443	385	369	552	546	22,5	22,2
W-12x40	146444	371	365	588	566	22,3	22,3
W-12x50	146438	374	364	532	524	22,6	22,1
W-12x50	146439	371	370	522	515	22,8	22,3
W-21x62	146506	394	392	514	506	22,7	21,9
W-21x62	146507	385	383	512	504	22,4	21,7
W-24x55	146397	385	379	511	497	23,8	23,5
W-24x55	146398	404	404	518	514	23,4	23,1
W-24x62	146399	374	369	506	497	23,3	22,6
W-24x62	146400	387	371	494	492	25,4	25,1
W-8x31	146477	376	368	492	489	24,4	23,9

12 análisis

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

B08: Marca AMO

Z01

Lorenzo Zabala