

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-33662

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	AUSTRALIABORG.
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-42993 / 1700015690	14289	30/11/2012

Material: WF Vigas,

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

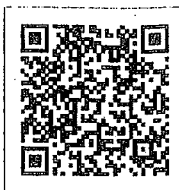
ARCELORMITTAL GIPUZKOA, S.L.U. ES/20/0040/03

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
W-18x35 40' +/-RED							
W-14x22 40'							
W-8x28 40' +/-RED							
W-21x44 40' +/-RED							
W-21x50 40' +/-RED							
W-16x26 40' +/-RED							
WF BEAMS 8x28	40'	6	10	60	5080	30.480	141708,141709
WF BEAMS 16x26	40'	1	6	6	2830	2.830	141775,141777
WF BEAMS 18x35	40'	26	6	156	3810	99.060	141218,141645,141646, 141647
WF BEAMS 21x44	40'	20	5	100	3992	79.840	141531,141532,141533, 141534,141535,141536, 141537
WF BEAMS 21x50	40'	13	5	65	4536	58.968	141546,141547,141549, 141551,141552
WF BEAMS 14x22	40'	17	12	204	4790	81.430	141845,141846,141847, 141849,141850,141851, 141852

TOTAL BUNDLES 83 TOTAL WEIGHT 352.608 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	CEV			
141218	,100	1,070	,200	,021	,011	,037	,150	,150	,027	,450	,003	,026	,36			



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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													CEV							
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn									
141531	,099	1,110	,170	,020	,007	,037	,140	,150	,028	,480	,007	,045	,37								
141532	,104	1,030	,210	,023	,012	,037	,110	,150	,030	,480	,003	,042	,35								
141533	,083	1,010	,170	,022	,011	,036	,120	,150	,027	,470	,003	,042	,33								
141534	,083	1,040	,200	,027	,013	,039	,130	,150	,029	,440	,003	,041	,34								
141535	,112	1,030	,190	,028	,010	,034	,140	,150	,030	,480	,003	,046	,37								
141536	,087	,980	,180	,026	,008	,034	,130	,140	,025	,490	,003	,041	,33								
141537	,086	,960	,170	,029	,023	,032	,130	,140	,024	,450	,003	,043	,32								
141546	,097	1,050	,200	,020	,012	,035	,140	,130	,022	,440	,003	,056	,35								
141547	,124	1,120	,210	,027	,009	,039	,160	,100	,019	,450	,003	,053	,39								
141549	,096	1,070	,190	,022	,015	,035	,120	,120	,025	,430	,003	,040	,35								
141551	,107	1,060	,200	,029	,010	,037	,120	,120	,024	,470	,003	,030	,36								
141552	,097	1,010	,170	,032	,012	,033	,150	,130	,023	,480	,003	,037	,35								
141645	,092	1,030	,170	,016	,016	,037	,110	,140	,042	,390	,003	,032	,34								
141646	,088	1,080	,180	,013	,016	,032	,100	,150	,044	,380	,003	,029	,34								
141647	,081	1,120	,200	,014	,019	,033	,170	,170	,050	,310	,003	,030	,35								
141708	,118	1,000	,180	,025	,013	,035	,170	,150	,029	,450	,003	,040	,37								
141709	,113	1,020	,190	,025	,011	,039	,190	,140	,039	,450	,003	,035	,38								
141775	,099	1,070	,170	,024	,010	,036	,130	,130	,025	,450	,003	,039	,35								
141777	,087	1,030	,180	,024	,015	,039	,110	,130	,026	,450	,003	,033	,33								
141845	,115	,970	,170	,025	,017	,041	,260	,180	,049	,480	,003	,036	,39								
141846	,088	1,030	,200	,019	,019	,041	,220	,210	,056	,440	,003	,024	,37								
141847	,084	1,080	,190	,026	,022	,042	,250	,210	,052	,450	,012	,030	,38								
141849	,086	,980	,180	,016	,021	,035	,130	,160	,042	,370	,003	,037	,33								
141850	,097	1,030	,180	,026	,022	,032	,160	,180	,041	,380	,007	,033	,35								
141851	,089	,990	,180	,025	,020	,034	,120	,160	,037	,340	,003	,026	,33								
141852	,090	,970	,180	,022	,016	,033	,140	,160	,039	,380	,003	,025	,33								

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B09	C11		C12		C13	
W-14x22	141845	409	398	564	555	22,3	21,8
W-14x22	141846	392	387	562	550	23,7	23,3
W-14x22	141847	416	408	556	552	22,3	22,2
W-14x22	141849	391	381	534	528	22,5	22,
W-14x22	141850	407	407	525	523	22,5	21,9
W-14x22	141851	405	403	538	522	22,7	22,7
W-14x22	141852	402	392	553	551	22,6	22,2
W-16x26	141775	430	416	547	531	22,8	22,6
W-16x26	141777	433	428	536	521	22,4	22,
W-18x35	141218	429	422	542	537	23,3	23,2
W-18x35	141645	383	367	506	490	25,2	25,1
W-18x35	141646	386	379	513	510	22,6	21,8
W-18x35	141647	429	415	556	536	22,4	21,9
W-21x44	141531	404	387	528	522	23,1	22,9
W-21x44	141532	415	405	532	510	24,3	23,4
W-21x44	141533	395	391	509	493	22,9	22,5
W-21x44	141534	404	396	522	518	24,	23,4
W-21x44	141535	404	394	533	509	24,8	24,8

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		ReH MPa		Rm MPa		A% L0=8"	
B11	B09	C11		C12		C13	
W-21x44	141536	417	405	532	516	22,6	21,9
W-21x44	141537	412	395	516	512	22,7	22,5
W-21x50	141546	402	392	525	503	22,7	22,2
W-21x50	141547	395	381	510	498	22,5	21,7
W-21x50	141549	408	394	520	506	23,8	23,2
W-21x50	141551	415	403	545	527	22,8	21,9
W-21x50	141552	404	398	532	520	23,	22,9
W-8x28	141708	411	410	551	541	22,5	22,1
W-8x28	141709	410	410	539	537	22,2	22,1

27 análisis

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

B06: Marca AMO

Z01

Lorenzo Zabala