

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




 ArcelorMittal

MILL TEST CERTIFICATE

OLA P-36875

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			PASAJES, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	ALAMOSBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	01-E-45025 / 1700017075	16119 / 16336	23/09/2013

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 6x15	40'	6	18	108	4898	29.388	146075,146076,146077
WF BEAMS 8x21	40'	13	12	156	4572	59.436	145774,146267,146268, 146269,146270
WF BEAMS 8x31	40'	4	8	32	4499	17.996	143645,143646,145876
WF BEAMS 10x26	40'	25	10	250	4717	117.925	146139,146140,146141, 146142,146143
WF BEAMS 10x30	40'	1	4	4	2177	2.177	145164
WF BEAMS 10x30	40'	18	8	144	4355	78.390	146146,146147,146148
WF BEAMS 12x14	40'	22	18	396	4571	100.562	146089,146090,146091, 146103
WF BEAMS 12x26	40'	32	10	320	4717	150.944	146144,146145,146149, 146150,146151,146161, 146162
WF BEAMS 12x30	40'	23	8	184	4355	100.165	146136,146137,146138
WF BEAMS 12x40	40'	1	6	6	4355	4.355	145493
WF BEAMS 14x26	40'	1	9	9	4245	4.245	145066
WF BEAMS 14x26	40'	20	10	200	4717	94.340	146011,146015,146016, 146017,146018
WF BEAMS 14x30	40'	23	8	184	4355	100.165	146088,146089,146091
WF BEAMS 16x26	40'	35	6	210	2830	99.050	146016,146017,146018, 146019
WF BEAMS 16x50	40'	18	5	90	4536	81.648	145449,145911,145912, 145913

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SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
WF BEAMS 18x35	40'	26	6	156	3810	99.060	146330,146331
WF BEAMS 18x50	40'	22	4	88	3629	79.838	145813,145814,146290,146291
WF BEAMS 18x76	40'	24	3	72	4137	99.288	146271,146272,146280,146281,146282,146283
WF BEAMS 18x86	40'	26	2	52	3121	81.146	146273,146274,146275,146277,146278
WF BEAMS 21x44	40'	15	5	75	3992	59.880	145818,145819,145820
WF BEAMS 21x62	40'	4	4	16	4500	18.000	144560,145964
WF BEAMS 21x73	40'	6	4	24	5298	31.788	145965,145966,145967
WF BEAMS 12x35	40'	12	8	96	5081	60.972	146133,146134

TOTAL BUNDLES 377

TOTAL WEIGHT 1.570.758 Kg.

A02 EN 10204/3.1

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

(E01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV	
143645	,101	1,020	,220	,022	,023	,038	,120	,170	,027	,410	,006	,034	,003	,35	
143646	,113	1,000	,190	,029	,023	,040	,140	,170	,030	,390	,004	,051	,003	,36	
144560	,119	1,000	,200	,025	,015	,037	,130	,180	,035	,530	,003	,045	,001	,37	
145066	,162	1,230	,180	,038	,017	,033	,300	,200	,038	,440	,003	,041	,003	,48	
145164	,082	1,000	,210	,020	,014	,042	,190	,240	,047	,410	,003	,035	,003	,35	
145449	,100	1,020	,210	,021	,018	,035	,160	,210	,038	,350	,003	,021	,005	,35	
145493	,100	1,040	,200	,030	,017	,040	,190	,150	,033	,440	,001	,016	,003	,37	
145774	,076	1,210	,170	,017	,023	,037	,220	,160	,028	,310	,003	,014	,001	,37	
145813	,086	1,050	,180	,022	,012	,040	,190	,180	,024	,500	,003	,030	,003	,36	
145814	,075	,970	,180	,026	,018	,037	,170	,190	,023	,460	,003	,030	,002	,33	
145818	,102	1,030	,190	,019	,019	,036	,160	,160	,020	,440	,003	,031	,003	,36	
145819	,161	1,030	,200	,024	,015	,037	,190	,170	,024	,490	,003	,031	,001	,43	
145820	,101	1,020	,180	,018	,017	,037	,210	,190	,019	,480	,004	,032	,001	,37	
145876	,068	1,070	,170	,015	,021	,037	,110	,200	,030	,410	,003	,025	,001	,32	
145911	,101	1,010	,190	,017	,013	,039	,120	,200	,024	,420	,003	,031	,002	,35	
145912	,077	1,030	,180	,020	,014	,053	,180	,220	,021	,420	,003	,026	,003	,34	
145913	,082	1,100	,210	,026	,015	,043	,160	,210	,019	,460	,003	,032	,002	,35	
145964	,079	1,010	,190	,026	,017	,036	,160	,150	,021	,440	,003	,024	,001	,33	
145965	,094	1,040	,190	,024	,016	,035	,200	,150	,022	,440	,003	,031	,002	,36	
145966	,112	1,060	,190	,023	,019	,036	,170	,150	,026	,450	,004	,031	,001	,38	
145967	,123	1,020	,180	,018	,019	,037	,150	,150	,025	,490	,003	,033	,001	,38	
146011	,093	,990	,160	,015	,020	,034	,130	,210	,029	,360	,003	,024	,001	,33	
146015	,089	1,040	,210	,024	,015	,032	,260	,200	,030	,470	,004	,034	,003	,37	
146016	,122	1,040	,180	,023	,012	,035	,240	,200	,023	,430	,005	,030	,002	,40	
146017	,083	1,050	,180	,024	,023	,039	,230	,190	,028	,450	,004	,032	,001	,36	
146018	,096	1,140	,150	,019	,020	,042	,190	,230	,025	,450	,014	,021	,001	,38	
146019	,086	1,130	,150	,018	,020	,040	,180	,220	,022	,450	,003	,022	,001	,37	
146075	,078	1,070	,190	,020	,016	,035	,200	,220	,039	,320	,007	,036	,001	,35	
146076	,090	1,030	,190	,022	,023	,034	,180	,200	,032	,360	,005	,040	,001	,35	
146077	,080	1,030	,180	,022	,018	,039	,180	,230	,033	,350	,005	,038	,001	,34	

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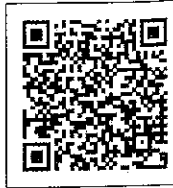


MILL TEST CERTIFICATE

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV				
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al						
146088	,073	1,040	,190	,024	,020	,046	,180	,160	,022	,380	,011	,036	,001	,33					
146089	,076	1,040	,190	,015	,028	,038	,190	,200	,029	,380	,017	,037	,001	,34					
146090	,081	1,010	,180	,018	,022	,042	,180	,190	,024	,360	,004	,037	,003	,34					
146091	,087	1,010	,210	,021	,019	,036	,170	,210	,031	,330	,003	,039	,003	,34					
146103	,074	1,000	,180	,030	,010	,038	,270	,210	,033	,480	,003	,021	,002	,35					
146133	,081	1,010	,200	,024	,018	,041	,160	,180	,026	,470	,003	,037	,003	,34					
146134	,079	1,050	,190	,026	,017	,042	,140	,180	,030	,470	,003	,030	,003	,33					
146136	,088	,990	,190	,018	,020	,039	,140	,170	,027	,410	,003	,039	,003	,34					
146137	,089	1,000	,190	,017	,016	,037	,140	,180	,029	,410	,003	,041	,004	,37					
146138	,110	1,030	,220	,025	,017	,038	,180	,180	,027	,380	,003	,037	,002	,34					
146139	,080	1,020	,190	,020	,018	,037	,170	,210	,036	,390	,003	,037	,002	,34					
146140	,081	1,010	,200	,019	,016	,035	,160	,200	,028	,360	,003	,042	,003	,33					
146141	,087	1,000	,190	,017	,019	,036	,150	,210	,030	,360	,003	,042	,002	,33					
146142	,088	1,000	,180	,016	,017	,038	,150	,210	,027	,360	,003	,038	,003	,34					
146143	,101	,980	,180	,017	,016	,036	,150	,210	,027	,370	,003	,041	,002	,35					
146144	,089	1,020	,180	,018	,013	,035	,160	,240	,032	,330	,003	,044	,003	,34					
146145	,091	1,050	,190	,027	,022	,040	,190	,230	,029	,430	,003	,043	,002	,36					
146146	,089	1,010	,170	,026	,020	,039	,210	,230	,028	,460	,003	,040	,001	,36					
146147	,117	1,020	,190	,018	,019	,040	,180	,200	,022	,440	,003	,047	,003	,38					
146148	,093	1,080	,190	,020	,022	,039	,160	,170	,024	,400	,003	,043	,001	,36					
146149	,086	1,110	,190	,030	,022	,040	,170	,160	,017	,450	,007	,042	,002	,36					
146150	,085	1,010	,190	,025	,020	,039	,180	,180	,024	,440	,003	,043	,004	,34					
146151	,113	1,010	,190	,021	,019	,041	,220	,230	,045	,430	,003	,050	,004	,39					
146161	,082	1,000	,190	,016	,020	,041	,140	,210	,029	,360	,003	,039	,003	,33					
146162	,080	1,050	,170	,024	,020	,042	,160	,170	,021	,440	,003	,040	,001	,34					
146267	,068	1,020	,180	,022	,016	,044	,220	,270	,044	,350	,003	,039	,007	,34					
146268	,077	,990	,180	,018	,012	,040	,250	,250	,046	,320	,003	,033	,004	,35					
146269	,104	1,000	,200	,026	,015	,034	,260	,220	,032	,390	,003	,022	,004	,38					
146270	,108	1,020	,190	,014	,020	,039	,180	,170	,025	,380	,003	,031	,003	,36					
146271	,088	1,050	,180	,023	,014	,037	,230	,200	,033	,390	,003	,037	,003	,36					
146272	,104	1,020	,170	,028	,015	,037	,240	,230	,046	,340	,003	,043	,003	,38					
146273	,113	1,020	,190	,019	,024	,032	,210	,190	,040	,350	,003	,031	,001	,38					
146274	,095	1,030	,170	,023	,020	,035	,260	,220	,045	,360	,003	,031	,001	,37					
146275	,087	1,000	,190	,029	,017	,040	,250	,220	,044	,370	,003	,044	,003	,36					
146277	,077	1,030	,180	,019	,019	,036	,210	,250	,045	,370	,003	,039	,002	,35					
146278	,059	1,030	,180	,020	,022	,037	,200	,270	,059	,320	,003	,034	,002	,33					
146280	,069	1,050	,200	,020	,019	,038	,170	,250	,058	,340	,003	,034	,002	,34					
146281	,073	1,000	,200	,030	,023	,036	,220	,210	,034	,410	,003	,023	,004	,34					
146282	,090	1,030	,190	,021	,019	,042	,210	,220	,042	,360	,003	,031	,003	,36					
146283	,079	1,040	,180	,024	,017	,044	,200	,210	,042	,350	,003	,026	,003	,35					
146290	,102	,990	,180	,023	,016	,038	,200	,200	,033	,330	,003	,026	,004	,36					
146291	,086	1,020	,180	,016	,011	,038	,150	,180	,030	,350	,003	,027	,003	,33					
146330	,081	,970	,180	,021	,012	,039	,200	,190	,030	,360	,003	,041	,004	,33					
146331	,078	,990	,200	,032	,012	,039	,270	,280	,040	,350	,003	,037	,004	,35					
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES			A% LO=8"														
		ReH MPa	Rm MPa																
B17	B09	C17	C12	C13															

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
		C11	C12	C13	C14	C15	C16
W-10x26	146139	412	407	551	544	22,3	21,8
W-10x26	146140	416	406	556	542	22,3	22,1
W-10x26	146141	437	421	548	542	22,3	22,3
W-10x26	146142	419	414	562	561	22,5	21,7
W-10x26	146143	391	385	540	522	22,2	21,9
W-10x30	145164	420	404	540	530	24,3	23,6
W-10x30	146146	410	401	551	548	22,3	21,9
W-10x30	146147	405	397	539	528	22,7	22,3
W-10x30	146148	379	381	503	521	22,	22,6
W-12x14	146089	409	404	550	549	23,1	23,1
W-12x14	146090	396	390	555	541	22,1	22,
W-12x14	146091	426	416	558	544	24,1	23,3
W-12x14	146103	389	381	569	551	22,4	21,7
W-12x26	146144	401	395	531	527	27,4	27,3
W-12x26	146145	394	388	526	524	26,7	26,1
W-12x26	146149	410	399	540	531	22,5	22,1
W-12x26	146150	414	400	543	534	22,2	21,9
W-12x26	146151	420	416	569	561	22,5	21,6
W-12x26	146161	401	387	519	505	22,2	22,2
W-12x26	146162	414	406	544	524	23,1	22,4
W-12x30	146136	399	394	534	527	22,7	21,9
W-12x30	146137	400	396	533	527	22,5	22,3
W-12x30	146138	421	413	563	551	23,6	22,8
W-12x35	146133	386	385	516	512	22,5	22,1
W-12x35	146134	419	411	562	551	22,4	22,1
W-12x40	145493	396	396	513	511	22,4	22,2
W-14x26	145066	434	440	577	567	22,4	22,2
W-14x26	146011	402	405	539	532	23,1	23,7
W-14x26	146015	452	434	561	541	22,2	21,9
W-14x26	146016	429	425	563	549	22,6	22,1
W-14x26	146017	437	431	568	546	23,9	23,3
W-14x26	146018	425	425	567	549	24,3	23,5
W-14x30	146088	424	415	558	557	22,5	22,2
W-14x30	146089	421	417	553	531	22,5	21,7
W-14x30	146091	438	420	569	563	22,5	21,7
W-16x26	146016	426	430	584	585	22,7	22,1
W-16x26	146017	447	446	593	578	22,3	22,
W-16x26	146018	435	427	550	549	22,7	22,3
W-16x26	146019	442	426	552	530	22,6	22,
W-16x50	145449	400	407	516	577	22,6	22,3
W-16x50	145911	392	382	506	496	23,7	22,8
W-16x50	145912	410	399	530	509	22,4	21,9
W-16x50	145913	384	392	532	562	22,8	22,
W-18x35	146330	409	392	537	523	23,1	22,7
W-18x35	146331	429	421	540	538	25,	24,9
W-18x50	145813	401	399	527	514	22,6	22,2
W-18x50	145814	391	391	498	496	22,8	22,8
W-18x50	146290	386	384	518	508	22,5	21,7

A01
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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B06	C11		C12		C13	
W-18x50	146291	382	376	497	493	22,5	21,8
W-18x76	146271	417	404	545	533	23,2	22,8
W-18x76	146272	395	385	538	518	22,5	22,2
W-18x76	146280	405	395	536	523	23,8	23,3
W-18x76	146281	410	398	539	528	23,1	22,5
W-18x76	146282	406	395	535	522	23,8	23,4
W-18x76	146283	415	401	531	523	22,7	22,2
W-18x86	146273	406	402	546	532	23,9	23,9
W-18x86	146274	405	390	534	528	24,8	24,2
W-18x86	146275	402	399	529	513	22,7	22,6
W-18x86	146277	393	390	517	502	22,8	22,3
W-18x86	146278	402	386	517	505	23,	22,5
W-21x44	145818	444	444	602	576	22,8	22,6
W-21x44	145819	447	445	617	607	22,4	22,1
W-21x44	145820	438	434	553	549	22,8	22,
W-21x62	144560	395	380	517	510	22,7	22,2
W-21x62	145964	387	380	517	512	22,5	22,7
W-21x73	145965	376	369	546	526	22,7	22,5
W-21x73	145966	427	444	515	522	24,7	23,6
W-21x73	145967	400	398	529	507	23,9	23,3
W-6x15	146075	423	413	567	545	22,4	21,8
W-6x15	146076	431	419	545	539	22,6	22,1
W-6x15	146077	422	418	549	526	22,3	22,2
W-8x21	145774	395	385	544	525	22,8	22,
W-8x21	146267	397	385	535	523	22,3	22,1
W-8x21	146268	413	406	579	558	24,1	23,4
W-8x21	146269	406	390	567	543	22,1	22,
W-8x21	146270	422	408	560	546	23,	22,3
W-8x31	143645	396	388	529	522	22,4	22,3
W-8x31	143646	410	402	553	531	22,6	21,8
W-8x31	145876	390	394	516	540	23,	23,

74 análisis

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

B06: Marca AMO

Z01

Lorenzo Zabala