

ArcelorMittal Gipuzkoa, S.L.U.
 ArcelorMittal Europe – Long Products
 CARRETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Guipúzcoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04




 ArcelorMittal

MILL TEST CERTIFICATE

OLA P-43632

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	WARNOW MERKUR
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	01-E-49960 / 1700019878	601141	28/02/2015

Material: WF Vigas,

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

ARCELORMITTAL GUIPUZKOA, 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 8x18	40'	20	16	320	5225	104.520	156060,156061,156062,156063,156064
WF BEAMS 8x24	40'	12	10	120	4355	52.260	156488,156489,156491,156492,156494,156511
WF BEAMS 8x31	40'	23	8	184	4499	103.477	156488,156489,156490,156492,156493,156494,156495,156496
WF BEAMS 8x48	40'	9	6	54	5225	47.025	156505
WF BEAMS 10x22	40'	21	12	252	4790	100.590	156445,156446,156447,156448,156449,156453,156455,156456,156457,156459,156460,156461,156462,156463
WF BEAMS 10x26	40'	23	10	230	4717	108.491	156476,156477,156478,156479,156480,156481
WF BEAMS 10x45	40'	11	6	66	4899	53.889	156414,156415
WF BEAMS 12x16	40'	20	18	360	5225	104.500	156594,156595,156596,156597,156598,156599,156600,156602
WF BEAMS 12x26	40'	43	10	430	4717	202.831	156582,156583,156584,156585,156586,156587,156588,156591,156592,156593,156594,156595,156596
WF BEAMS 12x65	40'	13	4	52	4717	61.321	154383,156102,156103,156104,156105,156106

A01

ArcelorMittal Gipuzkoa, S.L.U.
ArcelorMittal Europe – Long Products
CARRETERA MADRID - IRUN, KM. 419
20212 OLABERRIA (Guipúzcoa)
TELEF. (943) 80.50.00 - FAX (943) 88.04.04



MILL TEST CERTIFICATE

OLA P-43632

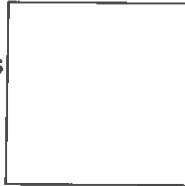
SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
------	--------	---------	----------------	--------------	----------------	--------------	------

TOTAL BUNDLES	195	TOTAL WEIGHT	938.904 Kg.
---------------	-----	--------------	-------------

A02 EN 10204/3.1	CSA G40.21 50W/ASTM A572 G50/A992/A6	(B01/B02/B03) A03
------------------	--------------------------------------	-------------------

FERRE BARNIEDO, S.A. DE C.V.
 ESTE CERTIFICADO ES COPIA FIEL
 DEL ORIGINAL DE NUESTROS ARCHIVOS,
 AMPARA LA REMISION No. _____
 TEL. 58-36-10-00
 ventas@ferrebarniedo.com.mx

ArcelorMittal Gipuzkoa, S.L.U.
 ArcelorMittal Europe – Long Products
 CARRPETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Gipuzkoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04

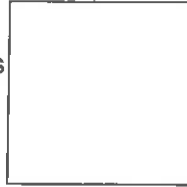


MILL TEST CERTIFICATE

OLA P-43632

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																						
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV									
154383	,097	,690	,170	,015	,022	,045	,100	,130	,025	,380	,003	,018	,002	,28									
156060	,102	,860	,210	,018	,020	,056	,120	,180	,031	,430	,003	,040	,003	,33									
156061	,106	,720	,200	,016	,020	,061	,130	,180	,035	,390	,003	,026	,002	,31									
156062	,085	,720	,170	,017	,020	,048	,110	,180	,038	,390	,003	,029	,002	,28									
156063	,098	,750	,210	,019	,018	,051	,150	,190	,048	,400	,003	,031	,002	,31									
156064	,096	,730	,200	,016	,022	,045	,110	,180	,039	,380	,003	,030	,001	,29									
156102	,086	,770	,170	,022	,021	,044	,180	,180	,033	,420	,003	,029	,001	,30									
156103	,098	,720	,180	,021	,019	,046	,160	,170	,033	,360	,003	,029	,001	,30									
156104	,111	,710	,190	,019	,018	,042	,190	,170	,031	,470	,003	,021	,002	,32									
156105	,103	,740	,210	,018	,020	,043	,130	,180	,031	,410	,003	,025	,002	,31									
156106	,093	,770	,190	,019	,020	,048	,140	,200	,037	,360	,003	,027	,002	,30									
156414	,114	,740	,200	,018	,023	,043	,150	,150	,030	,410	,003	,030	,001	,32									
156415	,123	,790	,180	,018	,017	,050	,140	,150	,031	,430	,003	,037	,001	,34									
156445	,094	,710	,190	,020	,022	,047	,150	,150	,028	,390	,003	,028	,001	,29									
156446	,101	,760	,180	,017	,028	,050	,120	,150	,031	,430	,003	,029	,001	,31									
156447	,090	,770	,180	,025	,023	,048	,110	,160	,030	,400	,003	,026	,001	,29									
156448	,100	,710	,210	,022	,026	,044	,130	,150	,029	,390	,003	,027	,003	,29									
156449	,106	,720	,200	,018	,023	,046	,130	,160	,028	,390	,003	,026	,001	,30									
156453	,105	,690	,170	,018	,019	,052	,110	,150	,030	,390	,003	,027	,003	,29									
156455	,114	,720	,190	,022	,018	,043	,190	,140	,028	,400	,003	,028	,003	,32									
156456	,105	,710	,170	,020	,020	,043	,190	,140	,030	,480	,003	,027	,002	,32									
156457	,118	,740	,210	,020	,017	,043	,120	,160	,027	,390	,003	,029	,002	,32									
156459	,081	,720	,190	,019	,017	,044	,140	,170	,034	,380	,003	,029	,002	,28									
156460	,110	,700	,190	,021	,019	,044	,150	,190	,034	,390	,003	,032	,002	,31									
156461	,098	,700	,180	,022	,017	,043	,160	,170	,028	,380	,003	,030	,002	,30									
156462	,103	,710	,180	,017	,020	,045	,130	,160	,033	,400	,003	,027	,001	,30									
156463	,102	,700	,200	,017	,020	,045	,130	,190	,032	,380	,003	,028	,002	,30									
156476	,097	,720	,190	,016	,020	,044	,120	,160	,029	,350	,003	,026	,002	,29									
156477	,093	,720	,190	,017	,018	,045	,150	,170	,031	,340	,003	,034	,002	,29									
156478	,115	,720	,160	,018	,019	,048	,180	,180	,036	,360	,003	,025	,001	,32									
156479	,127	,770	,210	,019	,016	,050	,160	,180	,035	,440	,003	,025	,002	,35									
156480	,101	,870	,190	,019	,019	,041	,160	,190	,036	,370	,003	,025	,001	,33									
156481	,112	,800	,200	,016	,022	,043	,110	,190	,034	,360	,003	,025	,001	,32									
156488	,099	,700	,190	,017	,021	,044	,110	,170	,030	,350	,003	,025	,001	,29									
156489	,103	,710	,190	,017	,020	,046	,120	,170	,031	,360	,003	,027	,001	,30									
156490	,100	,710	,190	,016	,020	,047	,140	,190	,035	,370	,003	,030	,001	,30									
156491	,115	,760	,220	,016	,022	,044	,180	,230	,040	,340	,003	,038	,001	,33									
156492	,115	,760	,180	,014	,021	,056	,100	,190	,033	,380	,003	,030	,001	,32									
156493	,104	,730	,180	,015	,024	,047	,100	,190	,032	,380	,003	,030	,001	,30									
156494	,099	,720	,180	,016	,021	,045	,130	,170	,032	,390	,003	,030	,001	,30									
156495	,085	,770	,170	,018	,026	,046	,140	,160	,028	,440	,003	,039	,001	,30									
156496	,093	,740	,190	,022	,021	,045	,160	,140	,027	,450	,003	,035	,002	,30									
156505	,101	,740	,190	,017	,020	,043	,140	,180	,036	,420	,003	,032	,003	,31									
156511	,082	,720	,190	,022	,019	,055	,160	,170	,040	,400	,003	,030	,003	,29									
156582	,102	,750	,200	,016	,019	,046	,110	,130	,032	,240	,003	,032	,003	,29									
156583	,093	,730	,190	,014	,019	,041	,120	,140	,033	,280	,003	,029	,002	,28									
156584	,076	,790	,190	,017	,022	,043	,130	,160	,037	,330	,003	,024	,002	,28									
156585	,092	,860	,170	,017	,019	,045	,170	,160	,033	,300	,003	,028	,001	,32									

ArcelorMittal Gipuzkoa, S.L.U.
 ArcelorMittal Europe – Long Products
 CARRETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Gipuzcoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



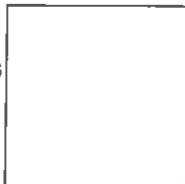
MILL TEST CERTIFICATE

OLA P-43632

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV
156586	,087	,830	,210	,020	,020	,046	,160	,150	,031	,320	,003	,032	,002	,30
156587	,104	,890	,200	,020	,022	,050	,180	,210	,037	,280	,003	,029	,002	,34
156588	,092	,730	,210	,014	,024	,044	,140	,190	,040	,300	,003	,028	,003	,29
156591	,091	,720	,210	,019	,025	,043	,130	,130	,025	,400	,003	,025	,001	,29
156592	,099	,720	,200	,017	,025	,044	,170	,160	,031	,330	,003	,026	,001	,30
156593	,095	,750	,190	,018	,028	,044	,170	,170	,034	,330	,003	,025	,001	,30
156594	,099	,750	,190	,017	,025	,044	,160	,170	,034	,340	,003	,025	,001	,31
156595	,086	,720	,190	,014	,024	,045	,120	,150	,033	,350	,003	,026	,001	,28
156596	,097	,770	,200	,019	,023	,046	,160	,160	,031	,360	,003	,028	,001	,31
156597	,090	,720	,210	,017	,019	,046	,140	,170	,034	,340	,003	,026	,001	,29
156598	,100	,720	,190	,022	,020	,044	,140	,160	,031	,360	,003	,027	,002	,30
156599	,092	,750	,200	,018	,022	,046	,120	,140	,023	,360	,003	,027	,001	,29
156600	,091	,730	,210	,018	,019	,047	,140	,140	,028	,340	,003	,028	,001	,29
156602	,114	,730	,190	,019	,019	,050	,140	,170	,030	,370	,003	,029	,002	,32

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa C11		Rm MPa C12		A% LO=8" C13	
W-10x22	156445	403	393	527	525	22,4	22,
W-10x22	156446	384	368	490	491	22,8	22,
W-10x22	156447	391	383	528	520	22,5	21,9
W-10x22	156448	385	375	511	501	22,7	21,9
W-10x22	156449	422	414	547	532	22,2	21,8
W-10x22	156453	396	383	509	493	22,4	22,2
W-10x22	156455	392	380	520	514	22,6	22,5
W-10x22	156456	389	381	517	517	22,4	21,9
W-10x22	156457	407	400	548	542	22,1	21,6
W-10x22	156459	390	380	526	506	22,6	22,5
W-10x22	156460	397	387	524	516	22,8	22,2
W-10x22	156461	397	392	528	512	23,	22,7
W-10x22	156462	402	394	538	526	22,5	22,2
W-10x22	156463	393	389	515	500	22,3	22,1
W-10x26	156476	377	373	511	508	22,9	22,5
W-10x26	156477	408	400	522	518	22,4	22,3
W-10x26	156478	397	395	528	514	22,7	22,2
W-10x26	156479	414	402	548	530	23,7	22,8
W-10x26	156480	367	362	519	506	22,1	21,7
W-10x26	156481	368	356	500	484	22,6	21,9
W-10x45	156414	407	398	528	518	22,5	22,1
W-10x45	156415	422	420	562	536	22,6	22,5
W-12x16	156594	388	384	525	512	22,6	22,3
W-12x16	156595	440	424	534	532	23,	22,9
W-12x16	156596	416	420	509	522	22,5	22,
W-12x16	156597	411	403	525	519	22,6	22,
W-12x16	156598	407	403	542	524	23,	22,5
W-12x16	156599	415	410	528	520	23,2	22,6
W-12x16	156600	406	392	518	516	22,6	22,6
W-12x16	156602	430	412	546	540	22,8	22,2

ArcelorMittal Gipuzkoa, S.L.U.
 ArcelorMittal Europe – Long Products
 CARRETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Guipúzcoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



MILL TEST CERTIFICATE

OLA P-43632

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8°	
B11	B08	C11		C12		C13	
W-12x26	156582	414	404	520	514	22,8	22,1
W-12x26	156583	411	407	540	522	22,5	22,5
W-12x26	156584	386	384	515	495	23,3	22,5
W-12x26	156585	375	371	492	492	25,7	24,8
W-12x26	156586	403	393	514	502	26,1	25,9
W-12x26	156587	415	407	542	531	23,2	22,5
W-12x26	156588	388	382	508	508	22,6	22,4
W-12x26	156591	401	389	515	511	23,	22,7
W-12x26	156592	406	396	524	505	23,3	22,8
W-12x26	156593	415	399	529	509	25,8	25,6
W-12x26	156594	384	378	494	488	25,3	24,8
W-12x26	156595	408	402	524	517	22,6	22,1
W-12x26	156596	393	377	503	487	22,4	21,8
W-12x65	154383	373	387	492	500	24,8	25,2
W-12x65	156102	403	392	526	516	23,9	23,3
W-12x65	156103	423	413	544	532	22,5	21,9
W-12x65	156104	427	415	542	542	23,1	23,1
W-12x65	156105	419	405	529	513	22,3	21,9
W-12x65	156106	410	392	517	501	22,8	21,9
W-8x18	156060	415	428	514	534	26,9	26,4
W-8x18	156061	420	408	545	525	22,1	22,1
W-8x18	156062	413	403	525	511	22,8	22,
W-8x18	156063	443	431	558	544	22,5	21,8
W-8x18	156064	416	400	526	520	24,1	23,6
W-8x24	156488	387	371	503	491	22,3	21,7
W-8x24	156489	380	370	503	495	22,5	22,4
W-8x24	156491	386	370	510	488	22,7	22,
W-8x24	156492	407	399	516	506	23,6	22,9
W-8x24	156494	377	365	502	495	22,8	22,
W-8x24	156511	401	397	516	506	23,6	23,3
W-8x31	156488	386	374	497	485	25,	24,2
W-8x31	156489	421	415	542	521	22,6	22,4
W-8x31	156490	393	387	514	506	23,	22,5
W-8x31	156492	424	414	546	535	22,5	22,3
W-8x31	156493	387	377	511	497	23,1	22,4
W-8x31	156494	376	368	491	490	22,6	22,4
W-8x31	156495	397	391	512	492	22,6	22,6
W-8x31	156496	395	385	508	505	22,9	22,4
W-8x48	156505	373	364	491	492	22,8	22,2

62 análisis

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

Responsable del Departamento de Calidad Z01

Lorenzo Zabala