

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-44116

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	CLIPPER HELVETIA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
P1704510	01-E-49964 / 1700019868	20162	31/03/2015

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
+/RED							
WF BEAMS 12x40	40'	14	6	84	4355	60.970	156872,156874,156875, 156876,156877,156878, 156887,156889
WF BEAMS 12x50	40'	17	4	68	3629	61.693	156857,156858,156859, 156861,156863,156864
WF BEAMS 14x43	40'	5	6	30	4681	23.405	156834,156835,156836, 156839,156840,156841, 156842,156913,156914, 156915
WF BEAMS 14x48	40'	6	6	36	5225	31.350	156828,156829,156831
WF BEAMS 14x53	40'	8	4	32	3846	30.768	156814,156815,156816, 156817,156818,156821, 156822,156823,156824, 156825,156826
WF BEAMS 18x35	40'	3	7	21	4446	13.338	156704,156705
WF BEAMS 14x68	40'	8	4	32	4935	39.480	156852,156853,156854, 156855,156856
WF BEAMS 18x86	40'	6	3	18	4681	28.086	156985,156986,156987, 156988,156989

TOTAL BUNDLES 67 TOTAL WEIGHT 289.090 Kg.

A02 EN 10204/3.1

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

(B01/B02/B03) A03

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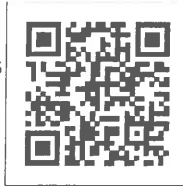


MILL TEST CERTIFICATE

OLA P-44116

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)														CEV								
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV									
156704	,121	,730	,210	,025	,019	,051	,120	,150	,029	,410	,003	,033	,001	,32									
156705	,096	,700	,190	,022	,018	,049	,120	,180	,024	,400	,003	,027	,002	,29									
156814	,100	,710	,190	,017	,021	,046	,130	,220	,037	,380	,003	,027	,001	,30									
156815	,096	,690	,170	,016	,021	,046	,120	,190	,033	,350	,003	,026	,001	,29									
156816	,107	,690	,210	,019	,020	,049	,100	,170	,028	,360	,003	,028	,003	,29									
156817	,106	,710	,210	,019	,023	,045	,110	,170	,027	,360	,003	,032	,002	,30									
156818	,117	,820	,190	,022	,027	,045	,180	,180	,030	,350	,003	,025	,001	,34									
156821	,099	,700	,220	,022	,025	,045	,100	,180	,028	,380	,003	,029	,002	,29									
156822	,112	,720	,210	,026	,023	,046	,110	,200	,032	,400	,003	,029	,002	,31									
156823	,089	,790	,200	,020	,023	,047	,120	,200	,028	,350	,003	,030	,001	,30									
156824	,073	,770	,180	,021	,025	,045	,120	,180	,027	,350	,003	,027	,001	,28									
156825	,086	,700	,220	,025	,024	,040	,120	,180	,028	,410	,003	,029	,002	,28									
156826	,083	,780	,210	,021	,022	,044	,120	,170	,028	,420	,003	,031	,001	,29									
156828	,086	,760	,220	,022	,022	,042	,150	,180	,034	,410	,003	,034	,001	,30									
156829	,088	,750	,210	,021	,019	,043	,160	,170	,034	,420	,003	,031	,001	,30									
156831	,118	,740	,200	,018	,023	,043	,110	,170	,029	,440	,003	,036	,002	,32									
156834	,075	,710	,280	,020	,026	,049	,140	,170	,034	,380	,003	,026	,001	,27									
156835	,117	,820	,210	,020	,025	,063	,120	,180	,029	,360	,003	,034	,002	,33									
156836	,095	,850	,160	,020	,024	,046	,130	,170	,028	,390	,003	,028	,001	,31									
156839	,085	,750	,200	,017	,025	,042	,100	,240	,038	,330	,003	,032	,002	,28									
156840	,092	,780	,190	,016	,022	,044	,100	,220	,037	,330	,003	,031	,002	,29									
156841	,110	,700	,180	,015	,021	,043	,110	,250	,043	,330	,003	,028	,001	,30									
156842	,114	,720	,200	,019	,025	,045	,190	,220	,035	,370	,003	,029	,002	,33									
156852	,096	,730	,190	,016	,024	,045	,160	,140	,024	,350	,003	,029	,001	,30									
156853	,103	,740	,200	,017	,024	,046	,140	,140	,024	,370	,003	,030	,001	,30									
156854	,099	,690	,180	,017	,024	,039	,130	,140	,025	,370	,003	,026	,001	,29									
156855	,082	,710	,190	,017	,024	,040	,130	,140	,025	,380	,003	,023	,002	,27									
156856	,079	,740	,190	,016	,025	,042	,140	,140	,022	,410	,003	,026	,001	,28									
156857	,105	,800	,210	,019	,027	,053	,140	,130	,023	,400	,003	,031	,001	,32									
156858	,086	,740	,210	,022	,028	,047	,170	,180	,026	,400	,003	,029	,002	,30									
156859	,092	,710	,180	,019	,022	,047	,140	,160	,026	,370	,003	,027	,001	,29									
156861	,094	,760	,190	,018	,023	,047	,170	,170	,027	,380	,003	,028	,001	,31									
156863	,104	,730	,190	,020	,019	,049	,180	,180	,029	,360	,003	,028	,001	,31									
156864	,106	,720	,170	,019	,020	,045	,140	,160	,024	,360	,003	,028	,001	,30									
156872	,111	,810	,200	,016	,018	,046	,130	,180	,030	,330	,003	,028	,001	,32									
156874	,138	,740	,200	,015	,022	,050	,180	,180	,042	,310	,003	,027	,002	,35									
156875	,093	,720	,210	,020	,024	,045	,190	,170	,038	,330	,003	,033	,003	,30									
156876	,092	,740	,200	,018	,024	,046	,140	,150	,030	,360	,003	,029	,001	,29									
156877	,091	,740	,190	,015	,023	,046	,110	,160	,026	,350	,003	,028	,001	,28									
156878	,093	,700	,190	,016	,022	,045	,110	,170	,027	,350	,003	,028	,001	,28									
156887	,113	,750	,190	,019	,019	,044	,150	,190	,034	,320	,003	,027	,003	,32									
156889	,106	,720	,200	,019	,020	,044	,170	,180	,033	,300	,003	,033	,002	,31									
156913	,099	,740	,210	,027	,016	,045	,300	,200	,053	,290	,003	,022	,001	,33									
156914	,128	,690	,180	,016	,017	,046	,210	,200	,052	,320	,003	,025	,001	,34									
156915	,097	,730	,210	,017	,018	,046	,180	,200	,051	,340	,003	,028	,001	,31									
156985	,094	,730	,210	,018	,018	,047	,210	,220	,055	,370	,003	,025	,001	,32									
156986	,120	,720	,220	,015	,020	,047	,190	,210	,051	,330	,003	,021	,002	,33									
156987	,096	,710	,190	,015	,020	,043	,160	,210	,047	,370	,003	,022	,002	,30									

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																		
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV					
B08																			
156988	,116	,730	,180	,015	,025	,058	,140	,200	,052	,330	,003	,023	,002	,32					
156989	,101	,730	,160	,013	,020	,052	,150	,210	,060	,340	,003	,022	,001	,31					
MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES																	
		ReH MPa		Rm MPa		A% L0=8"													
B11	B08	C11		C12		C13													
W-12x40	156872	411	397	533	524	22,8	22,1												
W-12x40	156874	433	416	550	550	22,9	22,6												
W-12x40	156875	382	376	493	489	23,	22,6												
W-12x40	156876	392	378	503	495	24,9	24,5												
W-12x40	156877	387	374	507	493	24,1	24,												
W-12x40	156878	399	383	510	503	22,5	22,3												
W-12x40	156887	392	390	519	499	22,5	21,8												
W-12x40	156889	377	368	503	494	23,4	22,9												
W-12x50	156857	374	370	494	492	23,	22,3												
W-12x50	156858	376	368	495	487	22,4	22,												
W-12x50	156859	386	372	497	491	22,3	22,1												
W-12x50	156861	377	377	493	490	23,	22,2												
W-12x50	156863	398	392	518	508	22,4	22,4												
W-12x50	156864	385	375	501	499	22,6	22,3												
W-14x43	156834	411	416	513	548	22,4	24,3												
W-14x43	156835	418	402	540	520	23,1	22,6												
W-14x43	156836	406	399	519	517	23,4	22,6												
W-14x43	156839	390	378	517	499	23,1	22,3												
W-14x43	156840	392	390	494	490	26,6	26,3												
W-14x43	156841	392	376	502	484	23,1	22,3												
W-14x43	156842	406	394	526	520	22,1	22,1												
W-14x43	156913	414	398	534	526	22,6	22,1												
W-14x43	156914	404	404	547	527	22,2	22,												
W-14x43	156915	396	402	504	508	26,1	26,9												
W-14x48	156828	382	374	495	486	22,8	21,9												
W-14x48	156829	395	385	508	504	22,7	22,5												
W-14x48	156831	384	378	499	487	22,9	22,3												
W-14x53	156814	392	383	513	498	22,6	22,2												
W-14x53	156815	385	378	512	494	22,5	21,6												
W-14x53	156816	412	402	534	530	23,3	22,6												
W-14x53	156817	381	369	513	501	22,5	22,1												
W-14x53	156818	384	372	509	503	23,3	22,6												
W-14x53	156821	372	366	493	489	22,3	21,7												
W-14x53	156822	385	375	510	488	23,	22,7												
W-14x53	156823	377	364	497	486	25,4	24,8												
W-14x53	156824	366	363	490	488	24,6	24,3												
W-14x53	156825	391	379	505	489	22,8	22,3												
W-14x53	156826	389	382	505	483	24,1	23,3												
W-14x68	156852	383	376	499	489	24,5	23,9												
W-14x68	156853	370	366	496	488	25,2	25,1												
W-14x68	156854	369	365	492	490	25,3	24,3												
W-14x68	156855	366	358	492	490	25,3	25,												

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
B11	B08	C11		C12		C13	
W-14x68	156856	387	378	515	499	24,2	24,
W-18x35	156704	366	362	496	486	25,7	24,7
W-18x35	156705	384	382	499	483	24,3	23,8
W-18x86	156985	376	383	493	512	22,4	23,4
W-18x86	156986	395	390	528	516	25,1	24,9
W-18x86	156987	382	380	503	489	24,4	23,5
W-18x86	156988	384	371	515	500	22,5	22,2
W-18x86	156989	374	370	497	493	22,5	22,1

50 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