

ArcelorMittal Madrid, S.L.

Long Carbon Steel Europe

CARRETERA TOLEDO, N-401 - KM. 9,200

28021 VILLAVERDE (Madrid)

TELEF. (91) 797.23.00 - FAX (91) 795.31.81



## QUALITY CERTIFICATE

MAD P-8850

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 MADRID, S.L. CARRETERA TOLEDO, N-401 - KM. 9,200 28021 VILLAVERDE (Madrid) TELEF. (91) 797.23.00 - TELEX 22120 - 49632 ARIS			BILBAO, SPAIN
		PORT OF DISCHARGE	VESSEL
		VERACRUZ	OLMECA
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE
mcabello	E-12421	1700007247	05/03/2008

Material: WF Vigas,

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

ARCELORMITTAL MADRID, S.L. ES/28/0047/03

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
<b>+/ROJO</b>							
WF BEAMS 18x76	40'	18	4	72	5516	99.288	74964,74967,74968,74969,74970
WF BEAMS 18x97	40'	47	3	141	5280	248.160	74930,74932,74933,74934,74935,74936,74937,74938,74939,74940
WF BEAMS 24x94	40'	1	3	3	5117	5.117	73717
WF BEAMS 24x103	40'	6	3	18	5606	33.636	74354,74619,74620

TOTAL BUNDLES 72

TOTAL WEIGHT 386.201 Kg.

A02 EN 10204/3.1.B

CSA G40.21 50W/ASTM A36-04/A572 G50-04/A992-04/A6-04

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)													
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV	
73717	,079	,799	,194	,018	,028	,002	,099	,154	,026	,463	,017	,022	,28	
74354	,090	,808	,189	,019	,028	,002	,103	,119	,020	,398	,017	,014	,28	
74619	,086	,796	,198	,017	,028	,002	,112	,139	,032	,432	,017	,018	,29	
74620	,087	,772	,213	,025	,023	,002	,102	,153	,035	,436	,017	,020	,28	
74930	,091	,815	,217	,012	,019	,002	,092	,104	,020	,406	,015	,019	,28	
74932	,095	,855	,237	,023	,019	,002	,106	,107	,022	,403	,017	,018	,30	
74933	,081	,822	,222	,021	,026	,002	,106	,103	,020	,411	,018	,018	,28	
74934	,088	,750	,206	,022	,021	,002	,130	,119	,024	,430	,016	,019	,28	
74935	,085	,801	,215	,018	,015	,002	,098	,105	,019	,408	,017	,017	,28	
74936	,077	,763	,289	,017	,020	,002	,109	,121	,020	,419	,020	,018	,27	

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COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	CEV					
<small>B06</small>																		
74937	,086	,820	,195	,015	,018	,002	,105	,111	,028	,403	,018	,021	,28					
74938	,098	,762	,170	,016	,018	,002	,146	,082	,020	,334	,016	,026	,29					
74939	,095	,813	,185	,020	,013	,002	,135	,108	,022	,389	,017	,037	,30					
74940	,070	,988	,257	,010	,019	,002	,060	,076	,019	,287	,021	,028	,28					
74964	,093	,814	,205	,024	,028	,002	,111	,125	,022	,454	,017	,020	,29					
74967	,098	,790	,205	,022	,014	,002	,118	,121	,021	,383	,016	,017	,29					
74968	,089	,828	,212	,020	,025	,002	,093	,105	,022	,423	,017	,019	,29					
74969	,095	,779	,199	,023	,027	,002	,110	,125	,024	,438	,018	,018	,29					
74970	,100	,829	,211	,020	,026	,002	,087	,112	,023	,420	,016	,019	,30					


MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
<small>B11</small>	<small>B06</small>	<small>C11</small>		<small>C12</small>		<small>C13</small>	
W-18x76	74964	367	373	476	480	22,5	22,2
W-18x76	74967	353	359	473	477	25,3	25,
W-18x76	74968	362	367	470	475	22,5	22,3
W-18x76	74969	366	369	490	496	22,1	21,9
W-18x76	74970	375	382	496	502	22,6	22,2
W-18x97	74930	368	373	488	493	24,5	24,3
W-18x97	74932	360	362	477	480	23,7	23,4
W-18x97	74933	361	367	474	479	23,2	22,9
W-18x97	74934	356	359	481	486	23,6	23,2
W-18x97	74935	363	366	480	483	25,2	24,9
W-18x97	74936	358	360	477	482	25,7	25,5
W-18x97	74937	368	374	480	486	24,2	23,8
W-18x97	74938	362	367	487	489	23,9	23,8
W-18x97	74939	362	366	483	487	26,1	25,8
W-18x97	74940	358	361	466	469	25,3	24,9
W-24x103	74354	351	355	467	469	22,3	22,
W-24x103	74619	348	351	481	485	22,8	22,4
W-24x103	74620	352	356	478	482	21,6	21,3
W-24x94	73717	365	369	469	475	23,5	23,3

## 19 análisis

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

B06: Marca APM

Z01

  
 Carlos Alvarez