

Original



Ein Unternehmen der Salzgitter Gruppe

Inspection certificate 3.1		No. (A03)	525190
DIN EN 10204		Page	1/2
(A02)		Date	15.11.2012
No. (A07)	313/12146	12.10.2012	No. (A07)
Purchaser (A08)	Salzgitter Mannesmann International GmbH 40409 Düsseldorf	Consumer	Aceromex S.A. de C.V. 65550 CIENNEGA DE FLORES NL C.P. MEXIKO
Product (B01)	W-Shapes acc. ASTM A6	Works order No. (A09)	0000385194
Steel grade and terms of delivery (B02-B03)	ASTM A 992-06a ASTM A 992-06a:2007	Dispatch note No.	0083984738 0083984752 0083984755 12.11.2012
			Inspection (A05)
			WS

Material data (B01-B09)

Item	Heat No. (B07)	Quantity (B08)	Cond. of delivery (B04)	Product (B07)	Length (B09-B11)	ft	Weight (B12)	kgs
10	49988	3	AR	W24X68LBS/FT	40'		3.702	
10	51106	6	AR	W24X68LBS/FT	40'		7.404	
10	51169	34	AR	W24X68LBS/FT	40'		41.956	
10	51238	18	AR	W24X68LBS/FT	40'		22.212	
10	51239	37	AR	W24X68LBS/FT	40'		45.658	
Σ		98	AR: as rolled				120.932	

Dimensional check and visual examination of the surface condition:
without objection

Ladle analysis (C70-C99)

Heat No. (B07)	C % ≤0,23	Si % ≤0,40	Mn % 0,50 - 1,60	P % ≤0,035	S % ≤0,045	N % ≤0,012	Al %	V % ≤0,15	Nb % ≤0,05	Ti %
49988	0,16	0,22	1,21	0,014	0,009	0,009	0,012	0,03	0,001	0,001
51106	0,16	0,22	1,19	0,012	0,015	0,011	0,019	0,02	0,00	0,001
51169	0,15	0,21	1,20	0,015	0,010	0,011	0,011	0,03	0,001	0,001
51238	0,16	0,21	1,18	0,012	0,010	0,012	0,012	0,03	0,001	0,001
51239	0,16	0,21	1,17	0,013	0,008	0,011	0,010	0,03	0,001	0,001

Heat No. (B07)	Cu % ≤0,60	Cr % ≤0,35	Ni % ≤0,45	Mo % ≤0,15	Sn %	EV1 1) % ≤0,45	V+Nb % ≤0,15
49988	0,17	0,11	0,14	0,03	0,01	0,42	0,03
51106	0,18	0,07	0,09	0,02	0,01	0,40	0,02
51169	0,24	0,08	0,17	0,04	0,02	0,41	0,03
51238	0,20	0,07	0,11	0,03	0,01	0,40	0,03
51239	0,21	0,08	0,11	0,03	0,01	0,40	0,03

1) EV1: CEV=C+Mn/8+Mo/5+Ni/15+Cr/5+V/5+Cu/15

Steel making: Electric process
(C70)

We hereby certify that the delivered material complies with the terms of the order.
(Z01)



Trademark
(A04)

Peiner Träger GmbH
Gerhard-Lucas-Meyer-Str. 10
D-31226 Peine
(A01)

Inspection Representative
(Z02)

Waldemar Mauch

This certificate was prepared by a suitable data processing system and is valid without signature according to EN 10 204, section 5.

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Purchaser (A06)	Salzgitter Mannesmann International GmbH 40409 Düsseldorf	Consumer	Aceromex S.A. de C.V. 65550 CIENNEGA DE FLORES NL C.P. MEXIKO
Product (B01)	W-Shapes acc. ASTM A6	Works order No. (A08)	0000385194
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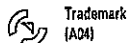
Tensile test (C10-C29)

Heat No. (B07)	Product (C00)	Location (C01)	Direct. (C02)	Type (C10)	Yield point (C11) ReH N/mm ² 345 - 450	Tensile strength (C12) Rm N/mm ² 450 - 650	Elongation (C13) 200mm % ≥ 18	ReH/Rm ≤ 0,85
49988	W24X68LBS/FT	FL	L	P	437	567	25	0,77
49988	W24X68LBS/FT	FL	L	P	443	570	25	0,78
51106	W24X68LBS/FT	FL	L	P	446	566	24	0,79
51106	W24X68LBS/FT	FL	L	P	441	565	24	0,78
51169	W24X68LBS/FT	FL	L	P	446	576	23	0,77
51169	W24X68LBS/FT	FL	L	P	440	572	23	0,77
51238	W24X68LBS/FT	FL	L	P	448	565	24	0,79
51238	W24X68LBS/FT	FL	L	P	443	563	24	0,79
51239	W24X68LBS/FT	FL	L	P	436	573	25	0,76
51239	W24X68LBS/FT	FL	L	P	438	571	24	0,77

1) FL: Flange
2) L: longitudinal
3) P: prismatic

Fully killed steel produced by an electric arc furnace

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(Z01)



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D-31226 Peine
(A01)

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