

Heat: P211339
 Your PO: P0230730-06

Order: 2636880
 Line: 1

1 1/4" X 0.140" ERW A53 GR A PE SRL




363 N. Sam Houston Pkwy E. Ste 500 Houston, TX 77060 USA Main Phone: 281-918-0720	INVOICE BMP-015222
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CUSTOMER	CONSIGNED TO	S.O.	SO-008127	DATE: 10/30/2021
		P.O.	291455	SALES RESPONSIBLE
		REFERENCE CONDITION	DECEMBER ORDER NET 30	ELIZABETH RAMIREZ

QUANTITY	UNIT	TONS	DESCRIPTION	NORM	FOB Location	JOINTS	DIAMETER INCHES	MM	GAUGE INCHES	MM	\$ / FT	AMOUNT
28,224.00	feet	15.95	3/4" - 0.113 - 1.13 - GR A - PE - BORUSAN - V - ERW S		RICHARDSON	1,344.00	3/4"		0.113		\$ 0.93	\$ 26,248.32
10,584.00	feet	6.03	3/4" - 0.113 - 1.14 - GR A - TC - BORUSAN - G - ERW S		RICHARDSON	504.00	3/4"		0.113		\$ 1.11	\$ 11,748.24

*** Thirty Seven Thousand Nine Hundred Ninety Six and 56/100 US Dollar	SUBTOTAL	\$ 37,996.56
	SALES TAX	\$ 0.00
	TOTAL	\$ 37,996.56



Comments:		
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SHIP FROM	Date 10/28/2021 BOL No PS072236 Carrier Name CLW Truck / Car No 225	Name Route REL012094 Customer SO SO-008127 Customer PO 291455 Release REL012094 Address
 2333 Clinton Dr Galena Park, TX 77029 USA		

FOB LOADED TRUCKS Galena Park, TX

Quantity	Item Description	Footage	Weight [Lbs]
1,344	3/4" - 0.113 - 1.13 - GR A - PE - BORUSAN - V - ERW Steel Pipes (30-01678)	28,224.00	31,893.12

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706[c][1][A] and [B].
 Subject to Borusan Mannesmann Pipe US, Inc.'s Standard Terms and Conditions of Sale, which are incorporated herein and govern this transaction and supersede any other terms and conditions set forth in any other purchase orders, releases, invoices and other documents between the parties related to this transaction.

<p>Shipper signature</p> 	<p>Carrier signature</p> 
<p>This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.</p>	<p>Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in</p>

SOP -17-WI19-F02

Tally Report



Date 10/28/2021
 Carrier CLW
 Truck No 225

Customer
 P.O. No
 Release No
 BOL

Material Description


3/4" - 0.113 - 1.13 - GR A - PE - BORUSAN - V - ERW Steel Pipes (30-01678)

No	Feet	Lot No	Heat
1	1,764.00		P110487,P102110
4	1,764.00		P1021245
7	1,764.00		P1021245
10	1,764.00		P110900
13	1,764.00		P110900
16	1,764.00		P1021245

No	Feet	Lot No	Heat
2	1,764.00		P1011096,P12111
5	1,764.00		P1021245
8	1,764.00		P711182,P102110
11	1,764.00		P1021245,P72134
14	1,764.00		P1021245
17			

No	Feet	Lot No	Heat
3	1,764.00		P1021245,P72134
6	1,764.00		P1021245
9	1,764.00		P511180
12	1,764.00		P1021245
15	1,764.00		P1021245,P72134
18			


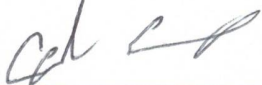
Total Joint 1,344.00
 Total Footage 28,224.00
 Total Weight 31,893.12

SHIP FROM	Date 10/28/2021 BOL No PS072237 Carrier Name CLW Truck / Car No 225 Reference: MV NAVIOS LYRA 2108, MV FOUR BUTTERFLY 2108	Name Route REL012094 Customer SO SO-008127 Customer PO 291455 Release REL012094 Address
 2333 Clinton Dr Galena Park, TX 77029 USA		

FOB LOADED TRUCKS Galena Park, TX

Quantity	Item Description	Footage	Weight [Lbs]
504	3/4" - 0.113 - 1.14 - GR A - TC - BORUSAN - G - ERW Steel Pipes (30-01341)	10,584.00	12,065.76

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)[1][A] and [B].
 Subject to Borusan Mannesmann Pipe US, Inc.'s Standard Terms and Conditions of Sale, which are incorporated herein and govern this transaction and supersede any other terms and conditions set forth in any other purchase orders, releases, invoices and other documents between the parties related to this transaction.

Shipper signature 	Carrier signature 
This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.	Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in

Heat: P211339
Your PO: P0230730-06

Order: 2636880
Line: 1

1 1/4" X 0.140" ERW A53 GR A PE SRL

SOP -17-WI19-F02

Tally Report



Date 10/28/2021
Carrier CLW
Truck No 225

Customer
P.O. No
Release No
BOL

Material Description

3/4" - 0.113 - 1.14 - GR A - TC - BORUSAN - G - ERW Steel Pipes (30-01341)

No	Feet	Lot No	Heat
1	1,764.00		P711182,P101109
4	1,764.00		P711182,P101109

No	Feet	Lot No	Heat
2	1,764.00		P711182,P101109
5	1,764.00		P721021,P110576

No	Feet	Lot No	Heat
3	1,764.00		P1011096
6	1,764.00		P711182,P101109

Total Joint 504.00
Total Footage 10,584.00
Total Weight 12,065.76



MILL TEST CERTIFICATE
A02 - EN 10204 3.1

A03 - Certificate No GM013758
Z0 K 2
Date 08.07.2021

A08 - Shipment 320036678 B01 - Standard
A06 - Contract No E3275 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES

B02 - Material Gr A
A07 - BMB Order No 059530
A07.1 - Cust Ref.
A07.2 - Final Cust.Ref.

Slab

B09 - B10 - B11			B06 - B12 - B13			B04		D51		D03										
No.	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet	Actual weight	Pipe Type	HT Psi	HT Sec	BD	NDT	EL	NP	External Coating Norm	UL/FM	Delivery Condition				
1	3/4"	0,113	21,00	168	3.528,00	1.770,00	Galvanized Thread&Couple	700	5	30	OK	0,55	14,00	ASTM A53	UL/FM	.				

B07		C71																
No.	Heat No	Slab melted, poured and manufactured in	C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
1	P110498	UKRAINE	6,9	0,0	28,2	13,5	16,6	28,4	0,0	0,0	0,7	1,6	15,8	9,9	5,8	0,0	0,0	120,7
1	P110576	UKRAINE	8,2	0,2	35,2	20,8	19,3	44,9	0,2	0,0	0,8	1,5	21,1	7,7	5,9	0,0	0,0	146,5
1	P721021	UKRAINE	9,5	0,6	34,0	14,9	15,0	25,8	0,0	0,1	0,5	1,7	22,6	6,7	4,8	4,1	0,1	157,6

B07		C11		C12	C13	C14.1	C40 - C43		C30 - C32	
No.	Heat No	Re Psi	Rm Psi	A %						
1	P110498	44.382	48.443	37						
1	P110576	48.443	52.795	38						
1	P721021	44.962	48.298	35						

BD	Bevel Degree	Re	Yield strength	1.Kind of steel	FF: Fully Killed	ITHL	Charpy Haz Longitudinal	CHMax	Charpy Haz Max
VD	Visual & Dimensions	Rm	Tensile strength	2.Direction	L: Longitudinal	ITHD	Charpy Haz Diagonal	CHMin	Charpy Haz Min
FB	Flattenning-Bending	A%	Elongation		Q: Transverse	ITHT	Charpy Haz Transverse	CMMMax	Charpy Metarial Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Metarial Diagonal	CMMin	Charpy Metarial Min
C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Metarial Transverse	CWMMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Metarial Longitudinal	CWMin	Charpy Welding Min
OK	Good			4.Impact type	H:Haz	ITWT	Charpy Weilding Transverse	NP	Full Pipe Normalised
					U Type	CWLon	Charpy Weilding Longitudinal	NW	Normalised Weld Zone
					V Type	CWDia	Charpy Weilding Diagonal	AW	As Welded

Destructive Tests & Visual Inspections
DE OK - C53 VD OK - D01
FB OK - C50 - C52 C OK

Note Description We hereby certify that the material described above complies with the terms of order contract. The values for the C, Mn and Si elements have been multiplied by 100 and the remaining chemical elements' values have been multiplied by 1000

Description

BORUSAN MANNESMANN BORU
GEMLIK KALİTE
Ata Mah. Sanayi Cad. No: 54/68
16601 Gemlik, Bursa / TURKEY
Tel : 0 224 270 15 00 (pbx)
G. Egemen MUTLU Quality Manager
gmutlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015560

Z0
K
2

Date
11.08.2021

A08 - Shipment 320040653 B01 - Standard
A06 - Contract No E3397 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES

B02 - Material Gr A
A07 - BMB Order No 060313
A07.1 - Cust Ref. May Stck Order
A07.2 - Final Cust.Ref.

Slab

No.	B09 - B10 - B11		B06 - B12 - B13			B04	D51	D03	HT Psi	HT Sec	BD	NDT	EL	NP	External Coating Norm	UL/FM	Delivery Condition
	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet												
1	3/4"	0,113	21,00	420	8.820,00	4.410,00	Galvanized Thread&Couple	700	5	30	OK	0,55	14,00	ASTM A53	UL/FM	.	
2	3/4"	0,113	21,00	420	8.820,00	4.280,00	Galvanized Plain End	700	5	0	OK	0,00	0,00	ASTM A53	UL/FM	.	

No.	B07		Slab melted, poured and manufactured in	C71															
	Heat No			C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
1	P1011096		UKRAINE	11,3	0,6	31,0	15,0	19,1	10,8	0,4	0,3	0,8	2,4	25,0	14,7	19,0	0,3	0,0	172,0
1	P711182		UKRAINE	9,2	0,0	30,3	13,7	16,0	10,7	0,2	0,3	0,6	1,4	58,4	13,4	15,0	1,6	0,5	156,6
2	P1011096		UKRAINE	11,3	0,6	31,0	15,0	19,1	10,8	0,4	0,3	0,8	2,4	25,0	14,7	19,0	0,3	0,0	172,0
2	P711182		UKRAINE	9,2	0,0	30,3	13,7	16,0	10,7	0,2	0,3	0,6	1,4	58,4	13,4	15,0	1,6	0,5	156,6

No.	Heat No	B07			C11			C12			C13			C14.1			C40 - C43			C30 - C32		
		Re Psi	Rm Psi	A %																		
1	P1011096	47.863	51.054	36																		
1	P711182	45.543	49.604	35																		
2	P1011096	47.863	51.054	36																		
2	P711182	45.543	49.604	35																		

Description

1 / 2

BORUSAN MANNESMANN BORU
GEMLIK KALİTE
Ata Mah. Sanayi Cad. No: 54/68
16601 Gemlik / Bursa / TÜRKİY
Tel : 0 (224) 370 15 00 (pbx)
G. Egemen MÜTÜLU / Quality Manager
gmuru@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015560

Z0
K
2

Date
11.08.2021

A08 - Shipment 320040653 B01 - Standard
A06 - Contract No E3397 A06 - Customer Nam
B01 - Product Description ERW STEEL PIPES
Slab

B02 - Material Gr A
A07 - BMB Order No 060313
A07.1 - Cust Ref. May Stck Order
A07.2 - Final Cust.Ref.

BD	Bevel Degree	Re	Yield strength	1.Kind of steel	FF: Fully Killed	ITHL	Charpy Haz Longitudinal	CHMax	Charpy Haz Max
VD	Visual & Dimensions	Rm	Tensile strength	2.Direction	L: Longitudinal	ITHD	Charpy Haz Diagonal	CHMin	Charpy Haz Min
FB	Flattenning-Bending	A%	Elongation		Q: Transverse	ITHT	Charpy Haz Transverse	CMMax	Charpy Metarial Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Metarial Diagonal	CMMin	Charpy Metarial Min
C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Metarial Transverse	CWMMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Metarial Longitudinal	CWMin	Charpy Welding Min
OK	Good			4.Impact type	H: Haz	ITWT	Charpy Welding Transverse	NP	Full Pipe Normalised
					U Type	CWLon	Charpy Welding Longitudinal	NW	Normalised Weld Zone
					V Type	CWDia	Charpy Welding Diagonal	AW	As Welded
Note	We hereby certify that the material described above complies with the terms of order contract.					Destructive Tests & Visual Inspections			
Description	The values for the C,Mn and Si elements have been multiplied by 100 and the remaining chemical elements' values have been multiplied by 1000					DE OK - C53 VD OK - D01			
						FB OK - C50 - C52 C OK			

Description

2 / 1 / 2

BORUSAN MANNESMANN BORU
GEMLIK KALITE
Ata Mah. Sanayi Cad. No: 54/68
16601 Gemlik - Bursa / TURKEY
Tel : 0224 270 15 00 (pbx)
G. Egemen MUTLU / Quality Manager
gmutlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015800
Z0
K
2
Date
14.08.2021

A08 - Shipment 320039617 B01 - Standard
A06 - Contract No E3438 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES

B02 - Material Gr A
A07 - BMB Order No 060646
A07.1 - Cust Ref. June Stck -2
A07.2 - Final Cust.Ref.

Slab

No.	B09 - B10 - B11		B06 - B12 - B13			Actual weight	Pipe Type	D51			D03			External Coating Norm	UL/FM	Delivery Condition
	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet			HT Psi	HT Sec	BD	NDT	EL	NP			
1	3/4"	0,113	21,00	672	14.112,00	6.610,00	Varnished Plain End	700	5	0	OK	0,00	0,00	RAL 9005	UL/FM	.
2	2"	0,154	21,00	338	7.098,00	11.010,00	Galvanized Plain End	2300	5	0	OK	0,00	0,00	ASTM A53	UL/FM	.
3	3/4"	0,113	21,00	336	7.056,00	3.370,00	Varnished Thread&Couple	700	5	30	OK	0,55	14,00	RAL 9005	UL/FM	.

No.	Heat No	Slab melted, poured and manufactured in	C71															
			C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
1	P1021109	UKRAINE	7,9	0,7	30,8	11,1	11,1	23,8	0,2	0,0	0,7	0,6	52,2	10,8	9,5	0,0	0,5	142,0
1	P1011096	UKRAINE	11,3	0,6	31,0	15,0	19,1	10,8	0,4	0,3	0,8	2,4	25,0	14,7	19,0	0,3	0,0	172,0
1	P110487	UKRAINE	8,2	0,0	30,4	17,0	19,4	16,8	0,0	0,0	0,7	1,2	22,9	12,6	4,9	6,7	0,0	138,8
1	P711182	UKRAINE	9,2	0,0	30,3	13,7	16,0	10,7	0,2	0,3	0,6	1,4	58,4	13,4	15,0	1,6	0,5	156,6
2	P111512	UKRAINE	3,5	0,2	29,4	10,9	9,6	8,5	0,9	2,0	1,1	3,0	21,7	7,7	4,9	0,6	0,0	89,8
2	P811177	UKRAINE	5,2	0,5	29,3	11,0	10,7	22,5	0,1	0,0	0,5	0,9	40,1	8,4	7,2	2,7	0,4	109,8
3	P110487	UKRAINE	8,2	0,0	30,4	17,0	19,4	16,8	0,0	0,0	0,7	1,2	22,9	12,6	4,9	6,7	0,0	138,8
3	P110900	UKRAINE	8,5	0,0	29,8	16,0	18,9	15,7	0,5	0,5	0,7	1,0	42,4	8,5	8,3	0,0	0,3	144,8
3	P721341	UKRAINE	7,1	3,3	33,0	15,9	18,9	19,3	0,0	0,0	0,2	0,0	60,1	15,6	14,4	4,2	0,4	139,9

No.	Heat No	B07			C11			C12			C13			C14.1			C40 - C43			C30 - C32		
		Re Psi	Rm Psi	A %	Re Psi	Rm Psi	A %	Re Psi	Rm Psi	A %	Re Psi	Rm Psi	A %	Re Psi	Rm Psi	A %	Re Psi	Rm Psi	A %	Re Psi	Rm Psi	A %
1	P1021109	45.398	51.199	34																		
1	P1011096	47.863	51.054	36																		
1	P110487	50.039	53.955	35																		
1	P711182	45.543	49.604	35																		
2	P111512	43.222	48.588	39																		
2	P811177	42.497	48.733	42																		
3	P110487	50.039	53.955	35																		
3	P110900	44.382	50.764	37																		
3	P721341	51.199	52.795	36																		

Description

BORUSAN MANNESMANN BORU
GEMLIK KALITE
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16601 Gemlik Bursa / TURKEY
Tel: 0227 270 15 00 (pbx)
G. Egemen MMTLU / Quality Manager
gmyku@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015800

Z0
K
2

Date
14.08.2021

A08 - Shipment 320039617 B01 - Standard
A06 - Contract No E3438 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES
Slab

B02 - Material Gr A
A07 - BMB Order No 060646
A07.1 - Cust Ref. June Stck -2
A07.2 - Final Cust.Ref.

BD	Bevel Degree	Re	Yield strength	1.Kind of steel	FF: Fully Killed	ITHL	Charpy Haz Longitudinal	CHMax	Charpy Haz Max
VD	Visual & Dimensions	Rm	Tensile strength	2.Direction	L: Longitudinal	ITHD	Charpy Haz Diagonal	CHMin	Charpy Haz Min
FB	Flattening-Bending	A%	Elongation		Q: Transverse	ITHT	Charpy Haz Transverse	CMMMax	Charpy Metarial Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Metarial Diagonal	CMMin	Charpy Metarial Min
C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Metarial Transverse	CWMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Metarial Longitudinal	CWMin	Charpy Welding Min
OK	Good			4.Impact type	H: Haz	ITWT	Charpy Welding Transverse	NP	Full Pipe Normalised
					U Type	CWLon	Charpy Welding Longitudinal	NW	Normalised Weld Zone
					V Type	CWDia	Charpy Welding Diagonal	AW	As Welded
Note	We hereby certify that the material described above complies with the terms of order contract.					Destructive Tests & Visual Inspections			
Description	The values for the C, Mn and Si elements have been multiplied by 100 and the remaining chemical elements' values have been multiplied by 1000					DE OK - C53 VD OK - D01 FB OK - C50 - C52 C OK			

Description

2 1 2

BORUSAN MANNESMANN BORU
GEMLIK KALITE
Ata Mah. Sanayi Cad. No: 54/68
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Tel: 0 (224) 270 15 00 (pbx)
G. Egemen MUTLU / Quality Manager
gm.tlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015701

Z0
K
2

Date
13.08.2021

A08 - Shipment 320039615 B01 - Standard
A06 - Contract No E3411 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES

B02 - Material Gr A
A07 - BMB Order No 060477
A07.1 - Cust Ref. June Stck -1
A07.2 - Final Cust.Ref.

Slab

No.	B09 - B10 - B11		B06 - B12 - B13			B04	D51	D03		NDT	EL	NP	External Coating Norm	UL/FM	Delivery Condition	
	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet	Actual weight	Pipe Type	HT Psi	HT Sec							BD
1	1"	0,133	21,00	720	15.120,00	10.700,00	Varnished Plain End	700	5	0	OK	0,00	0,00	RAL 9005	UL/FM	.
2	2"	0,154	21,00	1638	34.398,00	53.860,00	Varnished Thread&Couple	2300	5	30	OK	0,76	11,50	RAL 9005	UL/FM	.
3	1/2"	0,109	21,00	4080	85.682,30	30.110,00	Varnished Plain End	700	5	0	OK	0,00	0,00	RAL 9005	UL/FM	.
4	2"	0,154	21,00	468	9.828,00	15.310,00	Galvanized Plain End	2300	5	0	OK	0,00	0,00	ASTM A53	UL/FM	.
5	2"	0,154	21,00	234	4.914,00	7.740,00	Galvanized Thread&Couple	2300	5	30	OK	0,76	11,50	ASTM A53	UL/FM	.
6	1"	0,133	21,00	1560	32.760,00	24.000,00	Galvanized Thread&Couple	700	5	30	OK	0,68	11,50	ASTM A53	UL/FM	.
7	3/4"	0,113	21,00	4872	102.312,00	48.600,00	Varnished Plain End	700	5	0	OK	0,00	0,00	RAL 9005	UL/FM	.

No.	Heat No	Slab melted, poured and manufactured in	C71																
			C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq	
1	P111468	UKRAINE	5,7	0,0	26,3	13,2	15,4	35,9	0,0	0,0	0,6	2,7	18,8	11,0	6,5	4,1	0,0	106,3	
1	P111515	UKRAINE	7,1	0,1	27,8	16,4	15,1	56,2	0,0	0,0	0,5	3,0	23,9	11,4	8,2	4,1	0,1	123,7	
1	P1221221	UKRAINE	7,9	0,2	31,4	23,8	18,4	32,5	0,8	1,4	0,9	1,9	46,4	9,6	9,6	3,0	0,1	142,2	
1	P211339	UKRAINE	3,8	0,2	27,8	5,4	9,6	8,8	0,4	1,2	1,6	2,9	26,8	9,7	7,2	1,8	0,0	91,6	
1	P621327	UKRAINE	3,2	0,1	28,1	5,2	15,4	20,9	0,0	0,5	0,6	1,9	15,6	7,2	4,0	3,9	0,1	83,1	
1	P111426	UKRAINE	6,8	0,3	30,1	18,1	14,4	21,0	0,3	0,1	0,7	0,7	42,3	6,8	5,0	2,4	0,2	127,2	
1	P1221163	UKRAINE	5,7	0,2	29,3	9,6	8,9	8,7	0,7	0,5	0,9	1,5	61,3	12,1	14,7	0,0	0,6	120,1	
1	P521313	UKRAINE	5,3	0,1	28,1	15,3	11,2	4,3	0,5	0,4	0,8	1,5	40,1	9,2	9,5	5,0	0,3	109,1	
2	P110761	UKRAINE	5,9	0,3	27,0	18,5	14,9	10,3	0,0	0,2	0,6	1,7	15,9	8,0	3,6	4,5	0,0	108,6	
2	P111512	UKRAINE	3,5	0,2	29,4	10,9	9,6	8,5	0,9	2,0	1,1	3,0	21,7	7,7	4,9	0,6	0,0	89,8	
2	P111589	UKRAINE	6,1	0,1	30,1	15,9	16,8	6,7	0,9	2,7	1,1	3,1	20,6	7,7	6,1	5,1	0,0	117,2	
2	P711169	UKRAINE	4,7	0,0	31,3	20,3	13,2	6,6	0,5	1,6	0,9	5,1	44,4	26,6	19,3	4,7	0,0	112,1	
3	P1011115	UKRAINE	8,0	0,2	29,6	17,3	16,1	8,9	0,0	0,0	0,4	0,1	43,7	8,4	7,4	2,2	0,5	139,2	
3	P1011093	UKRAINE	10,2	0,1	31,8	13,3	18,3	29,7	0,0	1,1	0,8	1,6	18,7	13,4	17,4	1,3	0,0	160,9	
3	P1011184	UKRAINE	8,6	0,1	33,4	20,0	19,1	18,0	0,7	1,4	0,9	3,2	24,8	11,5	9,9	0,9	0,0	149,1	
3	P1221329	UKRAINE	4,5	0,7	30,8	18,9	18,4	11,7	1,1	2,1	1,1	3,4	28,9	13,1	9,9	1,6	0,1	104,9	
3	P521011	UKRAINE	9,1	0,1	33,2	18,9	10,3	20,3	0,6	1,8	0,8	2,8	24,8	8,9	9,9	1,9	0,2	153,6	
3	P611026	UKRAINE	7,1	0,0	30,8	22,9	11,0	25,8	0,6	0,6	0,8	1,5	49,4	10,9	15,0	0,0	0,3	134,1	
4	P111510	UKRAINE	10,0	0,2	34,9	23,1	19,3	12,8	0,7	1,1	0,9	2,5	34,1	11,4	6,2	0,6	0,0	167,3	
4	P111512	UKRAINE	3,5	0,2	29,4	10,9	9,6	8,5	0,9	2,0	1,1	3,0	21,7	7,7	4,9	0,6	0,0	89,8	

Description

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BORUSAN MANNESMANN BORU
GEMLIK KALITE
Ata Mah. Sarayli Cad. No: 54/68
16601 Gemlik - Bursa / TURKEY
Tel : 0 224 270 15 00 (pbx)
G. Egerner-MUTLU / Quality Manager
gmutlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015701

Z0
K
2

Date
13.08.2021

A08 - Shipment 320039615 B01 - Standard
A06 - Contract No E3411 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES

Slab

B02 - Material Gr A
A07 - BMB Order No 060477
A07.1 - Cust Ref. June Stck -1
A07.2 - Final Cust.Ref.

No.	Heat No	Slab melted, poured and manufactured in	C71															
			C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
5	N310327	RUSSIA	10,3	0,7	38,1	6,1	12,6	49,7	2,0	2,0	1,6	6,1	31,1	28,6	52,2	2,4	0,0	180,2
6	P1021107	UKRAINE	4,4	0,1	23,6	12,6	10,6	26,9	0,0	0,0	0,4	1,2	64,2	11,8	15,2	3,1	0,6	98,0
6	P110741	UKRAINE	4,3	0,2	30,0	16,5	15,7	5,4	0,2	1,1	0,8	1,6	21,4	11,7	6,6	6,7	0,0	98,5
6	P511313	UKRAINE	7,0	0,0	28,8	19,7	19,1	9,3	0,6	0,6	0,8	1,6	42,0	10,0	10,9	5,4	0,3	128,1
6	P521313	UKRAINE	5,3	0,1	28,1	15,3	11,2	4,3	0,5	0,4	0,8	1,5	40,1	9,2	9,5	5,0	0,3	109,1
6	P811092	UKRAINE	9,4	0,0	31,7	24,3	15,5	25,4	0,5	1,2	0,9	2,0	24,2	11,2	11,4	7,5	0,0	153,8
6	P821016	UKRAINE	5,7	0,6	28,8	8,1	12,3	6,9	0,7	1,9	2,2	3,2	19,6	11,8	9,4	5,0	0,0	111,3
7	P1021245	UKRAINE	6,6	0,6	26,1	12,4	12,0	5,0	0,8	1,5	0,9	1,7	53,9	13,2	13,0	2,4	0,2	122,6
7	P110900	UKRAINE	8,5	0,0	29,8	16,0	18,9	15,7	0,5	0,5	0,7	1,0	42,4	8,5	8,3	0,0	0,3	144,8
7	P711182	UKRAINE	9,2	0,0	30,3	13,7	16,0	10,7	0,2	0,3	0,6	1,4	58,4	13,4	15,0	1,6	0,5	156,6
7	P721341	UKRAINE	7,1	3,3	33,0	15,9	18,9	19,3	0,0	0,0	0,2	0,0	60,1	15,6	14,4	4,2	0,4	139,9

No.	Heat No	Re Psi	Rm Psi	A %	B07			C11			C12			C13			C14.1			C40 - C43			C30 - C32		
1	P111468	46.848	49.169	39																					
1	P111515	46.993	49.314	39																					
1	P1221221	48.588	50.184	35																					
1	P211339	45.543	48.153	43																					
1	P621327	45.252	48.153	42																					
1	P111426	48.878	50.329	39																					
1	P1221163	45.252	48.588	35																					
1	P521313	48.008	49.459	36																					
2	P110761	42.207	48.443	35																					
2	P111512	43.222	48.588	39																					
2	P111589	44.527	49.749	35																					
2	P711169	42.642	48.588	40																					
3	P1011115	44.382	52.650	37																					
3	P1011093	51.199	55.985	35																					
3	P1011184	48.008	52.504	36																					
3	P1221329	51.199	53.520	35																					

Description

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BORUSAN MANNESMANN BORU
GEMLIK KALITE
Ata Mah. Sanay. Cad. No: 54/68
16601 Gemlik / Bursa / TURKEY
Tel : 0 (26) 270 15 00 (pbx)
G. Egemen GUTLU / Quality Manager
gmtlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No Z0
GM015701 K
2 Date
13.08.2021

A08 - Shipment 320039615 B01 - Standard
A06 - Contract No E3411 A06 - Customer Narr
B01 - Product Description ERW STEEL PIPES

B02 - Material Gr A
A07 - BMB Order No 060477
A07.1 - Cust Ref. June Stck -1
A07.2 - Final Cust.Ref.

Slab

No.	B07 Heat No	C11 Re Psi	C12 Rm Psi	C13 A %	C14.1	C40 - C43	C30 - C32
3	P521011	54.680	59.756	35			
3	P611026	48.443	55.695	35			
4	P111510	45.398	50.039	35			
4	P111512	43.222	48.588	39			
5	N310327	50.039	60.627	36			
6	P1021107	43.077	48.443	36			
6	P110741	39.596	48.153	37			
6	P511313	48.298	49.749	35			
6	P521313	48.008	49.459	36			
6	P811092	45.688	49.749	36			
6	P821016	43.077	48.588	36			
7	P1021245	50.474	52.940	37			
7	P110900	44.382	50.764	37			
7	P711182	45.543	49.604	35			
7	P721341	51.199	52.795	36			

BD	Bevel Degree	Re	Yield strength	1.Kind of steel	FF: Fully Killed	ITHL	Charpy Haz Longitudinal	CHMax	Charpy Haz Max
VD	Visual & Dimensions	Rm	Tensile strength	2.Direction	L: Longitudinal	ITHD	Charpy Haz Diagonal	CHMin	Charpy Haz Min
FB	Flattening-Bending	A%	Elongation		Q: Transverse	ITHT	Charpy Haz Transverse	CMMMax	Charpy Metarial Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Metarial Diagonal	CMMin	Charpy Metarial Min
C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Metarial Transverse	CWMMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Metarial Longitudinal	CWMin	Charpy Welding Min
OK	Good				H:Haz	ITWT	Charpy Weilding Transverse	NP	Full Pipe Normalised
				4.Impact type	U Type	CWLon	Charpy Weilding Longitudinal	NW	Normalised Weld Zone
					V Type	CWDia	Charpy Weilding Diagonal	AW	As Welded

Note Description We hereby certify that the material described above complies with the terms of order contract. The values for the C,Mn and Si elements have been multiplied by 100 and the remaining chemical elements' values have been multiplied by 1000

Destructive Tests & Visual Inspections
DE OK - C53 VD OK - D01
FB OK - C50 - C52 C OK

Description

BORUSAN MANNESMANN BORU
GEMLIK KALITE
Ata Mah. Sanayi Cad. No: 54/68
16601 Gemlik - Bursa / TURKEY
Tel : 0 (226) 270 15 00 (pbx)
G. Egemen MUTLU / Quality Manager
gmutlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015702

Z0
K
2

Date
13.08.2021

A08 - Shipment 320039615 B01 - Standard A
A06 - Contract No E3438 A06 - Customer Name E
B01 - Product Description ERW STEEL PIPES

B02 - Material Gr A
A07 - BMB Order No 060646
A07.1 - Cust Ref. June Stck -2
A07.2 - Final Cust.Ref.

Slab

No.	B09 - B10 - B11		B06 - B12 - B13			B04	D51	D03			EL	NP	External Coating Norm	UL/FM	Delivery Condition	
	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet	Actual weight	Pipe Type	HT Psi	HT Sec	BD						NDT
1	3/4"	0,113	21,00	4368	91.728,00	43.800,00	Varnished Plain End	700	5	30	OK	0,00	0,00	RAL 9005	UL/FM	.
2	3/4"	0,113	21,00	672	14.112,00	6.790,00	Varnished Thread&Couple	700	5	30	OK	0,55	14,00	RAL 9005	UL/FM	.
3	2"	0,154	21,00	182	3.822,00	5.960,00	Varnished Thread&Couple	2300	5	30	OK	0,76	11,50	RAL 9005	UL/FM	.
4	2"	0,154	21,00	104	2.184,00	3.400,00	Galvanized Plain End	2300	5	30	OK	0,00	0,00	ASTM A53	UL/FM	.
5	2"	0,154	21,00	52	1.092,00	1.720,00	Galvanized Thread&Couple	2300	5	30	OK	0,76	11,50	ASTM A53	UL/FM	.

No.	Heat No	Slab melted, poured and manufactured in	C71															
			C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
1	P1021109	UKRAINE	7,9	0,7	30,8	11,1	11,1	23,8	0,2	0,0	0,7	0,6	52,2	10,8	9,5	0,0	0,5	142,0
1	P511180	UKRAINE	6,4	0,0	30,7	17,2	19,3	19,1	1,2	2,7	1,2	3,6	26,1	9,7	9,2	0,0	0,0	122,2
1	P1011096	UKRAINE	11,3	0,6	31,0	15,0	19,1	10,8	0,4	0,3	0,8	2,4	25,0	14,7	19,0	0,3	0,0	172,0
1	P110487	UKRAINE	8,2	0,0	30,4	17,0	19,4	16,8	0,0	0,0	0,7	1,2	22,9	12,6	4,9	6,7	0,0	138,8
1	P110900	UKRAINE	8,5	0,0	29,8	16,0	18,9	15,7	0,5	0,5	0,7	1,0	42,4	8,5	8,3	0,0	0,3	144,8
1	P1211187	UKRAINE	10,2	0,2	35,7	21,3	17,7	11,6	0,5	0,9	0,7	1,2	41,5	9,1	8,3	0,0	0,2	171,5
1	P711182	UKRAINE	9,2	0,0	30,3	13,7	16,0	10,7	0,2	0,3	0,6	1,4	58,4	13,4	15,0	1,6	0,5	156,6
2	LA09172	TURKEY	5,2	1,2	21,4	7,4	4,8	35,4	1,0	0,0	0,7	20,5	50,2	79,2	191,9	6,1	0,3	119,7
2	P1021245	UKRAINE	6,6	0,6	26,1	12,4	12,0	5,0	0,8	1,5	0,9	1,7	53,9	13,2	13,0	2,4	0,2	122,6
2	P110498	UKRAINE	6,9	0,0	28,2	13,5	16,6	28,4	0,0	0,0	0,7	1,6	15,8	9,9	5,8	0,0	0,0	120,7
2	P110900	UKRAINE	8,5	0,0	29,8	16,0	18,9	15,7	0,5	0,5	0,7	1,0	42,4	8,5	8,3	0,0	0,3	144,8
2	P211021	UKRAINE	7,7	0,0	30,4	22,9	17,8	25,1	0,5	0,0	0,6	4,8	22,9	16,3	13,9	5,2	0,1	135,6
2	P711021	UKRAINE	7,5	0,8	33,4	9,8	9,8	10,4	0,2	0,5	0,6	1,8	22,2	6,7	5,0	3,3	0,2	136,6
2	P711182	UKRAINE	9,2	0,0	30,3	13,7	16,0	10,7	0,2	0,3	0,6	1,4	58,4	13,4	15,0	1,6	0,5	156,6
2	P721341	UKRAINE	7,1	3,3	33,0	15,9	18,9	19,3	0,0	0,0	0,2	0,0	60,1	15,6	14,4	4,2	0,4	139,9
3	P711169	UKRAINE	4,7	0,0	31,3	20,3	13,2	6,6	0,5	1,6	0,9	5,1	44,4	26,6	19,3	4,7	0,0	112,1
3	P811177	UKRAINE	5,2	0,5	29,3	11,0	10,7	22,5	0,1	0,0	0,5	0,9	40,1	8,4	7,2	2,7	0,4	109,8
4	P111512	UKRAINE	3,5	0,2	29,4	10,9	9,6	8,5	0,9	2,0	1,1	3,0	21,7	7,7	4,9	0,6	0,0	89,8
5	P711169	UKRAINE	4,7	0,0	31,3	20,3	13,2	6,6	0,5	1,6	0,9	5,1	44,4	26,6	19,3	4,7	0,0	112,1

B07 C11 C12 C13 C14.1 C40 - C43 C30 - C32

Description

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BORUSAN MANNESMANN BORU
GEMLIK KALITE
Ata Mah. Saray, Cad. No. 54/68
16601 Gemlik - Bursa / TURKEY
Tel : 0 224 270 15 00 (pbx)
G. Egemen MUTLU / Quality Manager
gmutlu@borusan.com



MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015702

Z0
K
2

Date
13.08.2021

A08 - Shipment 320039615
A06 - Contract No E3438
B01 - Product Description ERW STEEL PIPES

B01 - Standard
A06 - Customer Name

B02 - Material Gr A
A07 - BMB Order No 060646
A07.1 - Cust Ref. June Stck -2
A07.2 - Final Cust.Ref.

Slab

No.	Heat No	B07	C11	C12	C13	C14.1	C40 - C43	C30 - C32
		Re Psi	Rm Psi	A %				
1	P1021109	45.398	51.199	34				
1	P511180	36.840	48.443	43				
1	P1011096	47.863	51.054	36				
1	P110487	50.039	53.955	35				
1	P110900	44.382	50.764	37				
1	P1211187	42.207	49.314	36				
1	P711182	45.543	49.604	35				
2	LA09172	58.886	60.482	36				
2	P1021245	50.474	52.940	37				
2	P110498	44.382	48.443	37				
2	P110900	44.382	50.764	37				
2	P211021	48.298	54.100	35				
2	P711021	43.367	49.024	34				
2	P711182	45.543	49.604	35				
2	P721341	51.199	52.795	36				
3	P711169	42.642	48.588	40				
3	P811177	42.497	48.733	42				
4	P111512	43.222	48.588	39				
5	P711169	42.642	48.588	40				

Description

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BORUSAN MANNESMANN BORU
GEMLİK KALİTE

Ata Mah. Sanayi Cad. No: 54/68
16601 Gemlik / Bursa / TURKEY
Tel : 0 226 270 15 00 (pbx)
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MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A03 - Certificate No
GM015702

Z0
K
2

Date
13.08.2021

A08 - Shipment 320039615 B01 - Standard
A06 - Contract No E3438 A06 - Customer Name
B01 - Product Description ERW STEEL PIPES
Slab

B02 - Material Gr A
A07 - BMB Order No 060646
A07.1 - Cust Ref. June Stck -2
A07.2 - Final Cust.Ref.

BD	Bevel Degree	Re	Yield strength	1.Kind of steel	FF: Fully Killed	ITHL	Charpy Haz Longitudinal	CHMax	Charpy Haz Max
VD	Visual & Dimensions	Rm	Tensile strength	2.Direction	L: Longitudinal	ITHD	Charpy Haz Diagonal	CHMin	Charpy Haz Min
FB	Flattening-Bending	A%	Elongation		Q: Transverse	ITHT	Charpy Haz Transverse	CMMax	Charpy Metarial Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Metarial Diagonal	CMMin	Charpy Metarial Min
C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Metarial Transverse	CWMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Metarial Longitudinal	CWMin	Charpy Welding Min
OK	Good			4.Impact type	H:Haz	ITWT	Charpy Welding Transverse	NP	Full Pipe Normalised
					U Type	CWLon	Charpy Welding Longitudinal	NW	Normalised Weld Zone
					V Type	CWDia	Charpy Welding Diagonal	AW	As Welded
Note	We hereby certify that the material described above complies with the terms of order contract.					Destructive Tests & Visual Inspections DE OK - C53 VD OK - D01 FB OK - C50 - C52 C OK			
Description	The values for the C,Mn and Si elements have been multiplied by 100 and the remaining chemical elements' values have been multiplied by 1000								

Description

3 / 3

BORUSAN MANNESMANN BORU
GEMLIK KALITE

Ata Mah. Sanayi Cad. No. 54/68
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