



Draganesti Street , No. 30, 230119, SLATINA, OLT. ROMANIA
 Tel: +40-249-436862(top management),434640,434641; Fax: +40-249-434330; 437288
 E-mail: office.slatina@tmk-artrom.ro; www.tmk-artrom.ro
 J 28/9/1991; VAT No: RO 1510210/1992;
 Subscribed Share Capital: 291.790.747, 94 lei
 Paid Share Capital: 291.476.491, 26 lei

MILL TEST CERTIFICATE / INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No/Nr : 12010 Date/Datum: 26.07.2011	Manufacturer's mark : Herstellerzeichen :	Customer Order No. / Vertrags Nr. 2117695/order dtd 01/06/2011	PL:14102
CUSTOMER - KUNDE: Distribuidora de Tubos y Aislamientos S.A. Pol. Ind. Valdecabanas - C/Pico Almanzor, 14 ES -28500 Arganda del Rey - Madrid VAT ES A 08768350			
Specification / Spezifikation: DIN 2440: 78 / EN 10255: 04 + A1:07		Dimensions-Abmessungen: 33.7 x 3.25 x 6 000+100/-0 mm Steel-Stahlsorte: St 33-2/ S 195T M S	
Description: Hot rolled seamless steel pipes; marking by painting at one end: manufacturer's mark, steel grade, M, heat no., LOT, mill inspector no. 5, technical control sign. Beschreibung: Warmgewalzte Nahtlose Stahlrohre; FarbMarkierung on einen Enden: Herstellerzeichen, Stahl Qualität, M, Chargen nr., LOT, Werkssachverständiger nr. 5, technisches - Kontrollzeichen.			
Heat No. - Schmelze Nr.: 32671			
Quantity delivered Gesamtgewicht	Pcs. - Stückzahl	Length -Gesamtlänge - m	Weight - Gesamtgewicht - Kg
	228	1368.0	3278

Ladle Chemical Analysis-Schmelzenanalyse

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	N
32671	0.13	0.53	0.001	0.007	0.23	0.11	0.06	0.02	0.18	0.008

Mechanical Properties- Mechanische Eigenschaften

TENSILE TEST- ZUGVERSUCH (EN 10002-1)				Rp0.2 N/mm ²	Rm N/mm ²	A %
Test Specimen Strip - Longitudinal				363	469	31
Dimension -Proben-Abmessungen (mm): 10.60 x 3.10						
Section - Proben-Durchschnitt (mm ²): 32.9						
Length -Proben-Länge - (Lo) (mm): 35						
Bending test Biegeversuch (SR EN ISO 8491)	Ring expanding test Ringaufdomversuch (EN ISO 8495)	Flattening test Ring faltversuch (EN ISO 8492)	Charpy V - Notch Kerbschlagbiegeversuch (EN 10045)	Ring tensile test Ring zugversuch (EN ISO 8496)		
OK	-	-	-	-		

Test Eddy Current Acc. EN 10246-1 / SEP 1925: OK

Visual inspection and dimensional check : OK
 Besichtigung und Ausmessung : OK
 " NO WELD REPAIR ON HEREBY CERTIFIED TUBES "
QC & LABORATORIES CHIEF
 CHEF DER WERKSZEUGNISABTEILUNG
 Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR
 UNTERSCHRIFT DES WERKSACHVERSTÄNDIGEN
 Eng. Constantin Lupu

THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND CONTAINED THE RECORDS OF THE COMPANY



S.C. T.M.K.-ARTROM S.A.
 Draganesti Street, No.30, 230119, SLATINA, OLT. ROMANIA

11

EN 10255:2004+A1

33.7 x 3.25 mm Non-Alloy steel tubes suitable for welding and threading

Intended uses: Distribution of aqueous liquids, gas and fuel

Reaction to fire:	Euroclass A1
Minimum specified yield strength:	195 Mpa
Durability:	Uncoated (NPD)
Dimensions:	Pass
Leak tightness:	Pass



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MILL TEST CERTIFICATE / INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No/Nr : 16711 Date/Datum: 24.10.2011	Manufacturer's mark : Herstellerzeichen :	Customer Order No. / Vertrags Nr. 2118020/PO 1016-11	PL: 15733
CUSTOMER - KUNDE: SIDERTUB S.L. C/Emiliano Barral, 9 E-28043 MADRID VAT ES B82831645			
Specification / Spezifikation: EN 10255: 04 + A1:07 / DIN 2440: 78		Dimensions-Abmessungen: 21.3 x 2.65 x 6 000+100/-0 mm Steel-Stahlsorte: S 195T / St 33-2 M S	
Description: Hot rolled seamless steel pipes; marking by painting at one end: manufacturer's mark, steel grade, M, heat no., LOT, mill inspector no. 5, technical control sign. Beschreibung: Warmgewalzte Nahtlose Stahlrohre; FarbMarkierung an einen Enden: Herstellerzeichen, Stahl Qualität, M, Chargen nr., LOT, Werkssachverständiger nr. 5, technisches - Kontrollzeichen.			
Heat No. - Schmelze Nr.: 33345			
Quantity delivered Gesamtgewicht	Pcs. - Stückzahl	Length - Gesamtlänge - m	Weight - Gesamtgewicht - Kg
	424	2544.0	3210

Ladle Chemical Analysis-Schmelzenanalyse

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	N
33345	0.11	0.54	0.003	0.018	0.22	0.08	0.06	0.01	0.20	0.009

Mechanical Properties- Mechanische Eigenschaften

TENSILE TEST- ZUGVERSUCH (EN 10002-1) Test Specimen Full - section				Rp0,2 N/mm ²	Rm N/mm ²	A %
Dimension - Proben-Abmessungen (mm): 21.30 x 2.60				382	471	35
Section - Proben-Durchschnitt (mm ²): 152.7						
Length - Proben-Länge - (Lo) (mm): 70						
Bending test Biegeversuch (SR EN ISO 8491)	Ring expanding test Ringaufdomversuch (EN ISO 8495)	Flattening test Ring faltversuch (EN ISO 8492)	Charpy V - Notch Kerbschlagbiegeversuch (EN 10045)	Ring tensile test Ring zugversuch (EN ISO 8496)		
OK	-	-	-	-		

Heat treatment: normalised during hot rolling process Test Eddy Current Acc. EN 10246-1 / SEP 1925: OK	Grain size ASTM E 112 : 9.5
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Visual inspection and dimensional check : OK
 Besichtigung und Ausmessung : OK
 "NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

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11	
EN 10255:2004+A1	
21.3 x 2.65 mm Non-Alloy steel tubes suitable for welding and threading	
Intended uses: Distribution of aqueous liquids, gas and fuel	
Reaction to fire: Minimum specified yield strength: Durability: Dimensions: Leak tightness:	Euroclass A1 195 Mpa Uncoated (NPD) Pass Pass



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MILL TEST CERTIFICATE / INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No/Nr : 16713 Date/Datum: 24.10.2011	Manufacturer's mark : Herstellerzeichen :	Customer Order No. / Vertrags Nr. 2118020/PO 1016-11	PL: 15733
CUSTOMER - KUNDE: SIDERTUB S.L. C/Emiliano Barral, 9 E-28043 MADRID VAT ES B82831645			
Specification / Spezifikation: EN 10255: 04 + A1:07 / DIN 2440: 78		Dimensions-Abmessungen: 33.7 x 3.25 x 6 000+100/-0 mm Steel-Stahlsorte: S 195T / St 33-2 M S	
Description: Hot rolled seamless steel pipes; marking by painting at one end: manufacturer's mark, steel grade, M, heat no., LOT, mill inspector no. 5, technical control sign. Beschreibung: Warmgewalzte Nahtlose Stahlrohre; FarbMarkierung an einen Enden: Herstellerzeichen, Stahl Qualität, M, Chargen nr., LOT, Werkssachverständiger nr. 5, technisches - Kontrollzeichen.			
Heat No. - Schmelze Nr.: 33533			
Quantity delivered Gesamtgewicht	Pes. - Stückzahl	Length - Gesamtlänge - m	Weight - Gesamtgewicht - Kg
	360	2160.0	5438

Ladle Chemical Analysis-Schmelzenanalyse

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	N
33533	0.12	0.54	0.006	0.013	0.20	0.10	0.05	0.02	0.18	0.008

Mechanical Properties- Mechanische Eigenschaften

TENSILE TEST- ZUGVERSUCH (EN 10002-1)				Rp0,2	Rm	A
Test Specimen Strip-longitudinal				N/mm ²	N/mm ²	%
Dimension -Proben-Abmessungen (mm): 10.40 x 3.20				367	458	33
Section - Proben-Durchschnitt (mm ²): 33.3						
Length -Proben-Länge - (Lo) (mm): 35						
Bending test Biegeversuch (SR EN ISO 8491)	Ring expanding test Ringaufdomversuch (EN ISO 8495)	Flattening test Ring faltversuch (EN ISO 8492)	Charpy V - Notch Kerbschlagbiegeversuch (EN 10045)	Ring tensile test Ring zugversuch (EN ISO 8496)		
OK	-	-	-	-		

Heat treatment: normalised during hot rolling process Test Eddy Current Acc. EN 10246-1 / SEP 1925: OK	Grain size ASTM E 112 : 9.5
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Visual inspection and dimensional check : OK
 Besichtigung und Ausmessung : OK
 "NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

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CE	
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11	
EN 10255:2004+A1	
33.7 x 3.25 mm Non-Alloy steel tubes suitable for welding and threading	
Intended uses: Distribution of aqueous liquids, gas and fuel	
Reaction to fire: Minimum specified yield strength: Durability: Dimensions: Leak tightness:	Euroclass A1 195 Mpa Uncoated (NPD) Pass Pass



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MILL TEST CERTIFICATE / INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No/Nr : 16712 Date/Datum: 24.10.2011	Manufacturer's mark : Herstellerzeichen :	Customer Order No. / Vertrags Nr. 2118020/PO 1016-11	PL: 15733
CUSTOMER - KUNDE: SIDERTUB S.L. C/Emiliano Barral, 9 E-28043 MADRID VAT ES B82831645			
Specification / Spezifikation: EN 10255: 04 + A1:07 / DIN 2440: 78		Dimensions-Abmessungen: 26.9 x 2.65 x 6 000+100/-0 mm Steel-Stahlsorte: S 195T / St 33-2 M S	
Description: Hot rolled seamless steel pipes; marking by painting at one end: manufacturer's mark, steel grade, M, heat no., LOT, mill inspector no. 5, technical control sign. Beschreibung: Warmgewalzte Nahtlose Stahlrohre; FarbMarkierung an einen Enden: Herstellerzeichen, Stahl Qualität, M, Chargen nr., LOT, Werksachverständiger nr. 5, technisches - Kontrollzeichen.			
Heat No. - Schmelze Nr.: 33340			
Quantity delivered Gesamtgewicht	Pcs. - Stückzahl	Length - Gesamtlänge - m	Weight - Gesamtgewicht - Kg
	626	3756.0	6122

Ladle Chemical Analysis-Schmelzenanalyse

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	N
33340	0.13	0.53	0.003	0.009	0.23	0.08	0.05	0.01	0.18	0.009

Mechanical Properties- Mechanische Eigenschaften

TENSILE TEST- ZUGVERSUCH (EN 10002-1) Test Specimen Full - section				Rp0,2 N/mm ²	Rm N/mm ²	A %
Dimension - Proben-Abmessungen (mm): 26.90 x 2.65				378	466	34
Section - Proben-Durchschnitt (mm ²): 201.8						
Length - Proben-Länge - (Lo) (mm): 80						
Bending test Biegeversuch (SR EN ISO 8491)	Ring expanding test Ringaufdomversuch (EN ISO 8495)	Flattening test Ring faltversuch (EN ISO 8492)	Charpy V - Notch Kerbschlagbiegeversuch (EN 10045)	Ring tensile test Ring zugversuch (EN ISO 8496)		
OK	-	-	-	-		

Heat treatment: normalised during hot rolling process Test Eddy Current Acc. EN 10246-1 / SEP 1925: OK	Grain size ASTM E 112 : 9.0
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Visual inspection and dimensional check : OK
 Besichtigung und Ausmessung : OK
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S.C. T.M.K. -ARTROM S.A. Draganesti Street, No 30, 230119, SLATINA, OLT, ROMANIA	
11	
EN 10255:2004+A1	
26.9 x 2.65 mm Non-Alloy steel tubes suitable for welding and threading	
Intended uses: Distribution of aqueous liquids, gas and fuel	
Reaction to fire: Minimum specified yield strength: Durability: Dimensions: Leak tightness:	Euroclass A1 195 Mpa Uncoated (NPD) Pass Pass



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MILL TEST CERTIFICATE / INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No/Nr : 12011 Date/Datum: 26.07.2011	Manufacturer's mark : Herstellerzeichen :	Customer Order No. / Vertrags Nr. 2117695/order dtd 01/06/2011	PL:14102
CUSTOMER - KUNDE: Distribuidora de Tubos y Aislamientos S.A. Pol. Ind. Valdecabanas - C/Pico Almanzor, 14 ES -28500 Arganda del Rey - Madrid VAT ES A 08768350			
Specification / Spezifikation: DIN 2440: 78 / EN 10255: 04 + A1:07		Dimensions-Abmessungen: 42.4 x 3.25 x 6 000+100/-0 mm Steel-Stahlsorte: St 33-2/ S 195T M S	
Description: Hot rolled seamless steel pipes; marking by painting at one end: manufacturer's mark, steel grade, M, heat no., LOT, mill inspector no. 5, technical control sign. Beschreibung: Warmgewalzte Nahtlose Stahlrohre; FarbMarkierung on einen Enden: Herstellerzeichen, Stahl Qualität, M, Chargen nr., LOT, Werkssachverständiger nr. 5, technisches - Kontrollzeichen.			
Heat No. - Schmelze Nr.: 32664			
Quantity delivered Gesamtgewicht	Pcs. - Stückzahl	Length -Gesamtlänge - m	Weight - Gesamtgewicht - Kg
	347	2082.0	6522

Ladle Chemical Analysis-Schmelzenanalyse

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	N
32664	0.14	0.57	0.003	0.010	0.21	0.09	0.04	0.01	0.19	0.006

Mechanical Properties- Mechanische Eigenschaften

TENSILE TEST- ZUGVERSUCH (EN 10002-1)				Rp0.2 N/mm ²	Rm N/mm ²	A %
Test Specimen Strip - Longitudinal				360	466	33
Dimension -Proben-Abmessungen (mm): 10.70 x 3.40						
Section - Proben-Durchschnitt (mm ²): 36.4						
Length -Proben-Länge - (Lo) (mm): 35						
Bending test Biegeversuch (SR EN ISO 8491)	Ring expanding test Ringaufdomversuch (EN ISO 8495)	Flattening test Ring faltversuch (EN ISO 8492)	Charpy V - Notch Kerbschlagbiegeversuch (EN 10045)	Ring tensile test Ring zugversuch (EN ISO 8496)		
OK	-	-	-	-		

Test Eddy Current Acc. EN 10246-1 / SEP 1925: OK

Visual inspection and dimensional check : OK
 Besichtigung und Ausmessung : OK
 "NO WELD REPAIR ON HEREBY CERTIFIED TUBES"
QC & LABORATORIES CHIEF
 CHEF DER WERKSZEUGNISABTEILUNG
 Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR
 UNTERSCHRIFT DES WERKSACHVERSTÄNDIGEN
 Eng. Constantin Lupu

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 Draganesti Street. No.30. 230119. SLATINA. OLT. ROMANIA

11

EN 10255:2004+A1

42.4 x 3.25 mm Non-Alloy steel tubes suitable for welding and threading

Intended uses: Distribution of aqueous liquids, gas and fuel

Reaction to fire:	Euroclass A1
Minimum specified yield strength:	195 Mpa
Durability:	Uncoated (NPD)
Dimensions:	Pass
Leak tightness:	Pass



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MILL TEST CERTIFICATE / INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No/Nr : 16714 Date/Datum: 24.10.2011	Manufacturer's mark : Herstellerzeichen :		Customer Order No. / Vertrags Nr. 2118020/PO 1016-11	PL: 15733
CUSTOMER - KUNDE: SIDERTUB S.L. C/Emiliano Barral, 9 E-28043 MADRID VAT ES B82831645				
Specification / Spezifikation: EN 10255: 04 + A1:07 / DIN 2440: 78		Dimensions-Abmessungen: 114.3 x 4.5 x 6 000+100/-0 mm Steel-Stahlsorte: S 195T / St 33-2 M S		
Description: Hot rolled seamless steel pipes; marking by painting at one end: manufacturer's mark, steel grade, M, heat no., LOT, mill inspector no. 5, technical control sign. Beschreibung: Warmgewalzte Nahtlose Stahlrohre; FarbMarkierung an einen Enden: Herstellerzeichen, Stahl Qualität, M, Chargen nr., LOT, Werkssachverständiger nr. 5, technisches - Kontrollzeichen.				
Heat No. - Schmelze Nr.: 33286				
Quantity delivered Gesamtgewicht	Pcs. - Stückzahl	Length - Gesamtlänge - m	Weight - Gesamtgewicht - Kg	
	86	516.0	6562	

Ladle Chemical Analysis-Schmelzenanalyse

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	N
33286	0.13	0.53	0.003	0.009	0.21	0.15	0.04	0.02	0.18	0.009

Mechanical Properties- Mechanische Eigenschaften

TENSILE TEST- ZUGVERSUCH (EN 10002-1)				Rp0,2 N/mm ²	Rm N/mm ²	A %
Test Specimen Strip-longitudinal						
Dimension - Proben-Abmessungen (mm): 10.40 x 4.55						
Section - Proben-Durchschnitt (mm ²): 47.3				341	458	34
Length - Proben-Länge - (Lo) (mm): 40						
Bending test Biegeversuch (SR EN ISO 8491)	Ring expanding test Ringaufdomversuch (EN ISO 8495)	Flattening test Ring faltversuch (EN ISO 8492)	Charpy V - Notch Kerbschlagbiegeversuch (EN 10045)	Ring tensile test Ring zugversuch (EN ISO 8496)		
-	-	OK	-	-		

Test Eddy Current Acc. EN 10246-1 / SEP 1925: OK	
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Visual inspection and dimensional check : OK
 Besichtigung und Ausmessung : OK
 "NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

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II	
EN 10255:2004+A1	
114.3 x 4.5 mm Non-Alloy steel tubes suitable for welding and threading	
Intended uses: Distribution of aqueous liquids, gas and fuel	
Reaction to fire: Minimum specified yield strength: Durability: Dimensions: Leak tightness:	Euroclass A1 195 Mpa Uncoated (NPD) Pass Pass