MANNESMANN
PRECISION TUBES
A Member of the Salzgitter Group

(A01 – A10, Z02)
Mannesmann Precision Tubes GmbH
Postfach 1713, D-59061 Hamm

SICAM Centro S.R.L.

Via Marziana 21

IT-27020 Parona Lomellina (PV)

Type of inspection document
Inspection certificate 3.1
acc. DIN EN 10204:2005-01

Document number: 30/3/19/01060/E
Date: 11.10.2019
Page: 1/ 3
To delivery note no.: 30735050
Delivery date: 11.10.2019
order no.: 200041854
Destination: Italy
Inspection representative: Bunzendahl
Manufacturer's works: SMST Remscheid
Tel.: 02191/895-205
Fax: 02191/895-499

Purchaser order number	Date of order	Consignee	Consignee order number
2010	18.06.2019	802168 Olematic SAS	

(B01 – B14)

Item	Article/Dimension (mm)	...quantity	...length/m ..length/ft	...weight/kg ..weight/lbs
1	10129251	9	93.120	9606
	280,00x15,00x 10 – 11 m MW-Grade 660+SR		305.512	21178

cut.diam. 280,000 * ins.diam. 250,000 MM
HFZ tubes / seamless, cold finished
DIN EN 10305-1, Edt. 08.2016
MW-Grade 660
condition of delivery: +SR
plain unmachined ends / inspection certificate 3.1 acc. to DIN EN 10204:2005-01
surface protection outside: with temporary protection against corrosion group 0
/ surface protection inside:
with group 0 temporary protection against corrosion
Random length 10.000,000 – 11.000,000 MM
mark. on tubes: mark. on tubes: continuous marking:
- manufacturer's mark
  type of tube
- dimension
- delivery standard
- steel grade
- delivery condition
- batch number
- additionally:
- country of origin
end protection: tube ends closed with blue plastic caps
bundled, bundles with 2 nonreturnables liftig straps
15,000-

(C70 – C93)
Chemical composition/ladle analysis %

		C Pb	Si EF1	Mn EF2	P	S	Al	Cu	Cr	Ni	Mo	V	As	Ti	Nb	Co	N
min.				1.00			0.020										
max.		0.200	0.600	1.70	0.025	0.0300		0.700	0.30	0.80	0.100	0.200		0.040	0.050		0.0200
			0.22														
Heat-no.	E																
0319262009	2	0.180	0.440	1.54	0.014	0.0010	0.020	0.170	0.16	0.16	0.040	0.110	0.003	0.004	0.001	0.0060	0.0130
		0.001	0.12	0.52													

E = Steelmaking process:
2 = Oxygen

SRL
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Spett. HYVA DO BRASIL HIDRAULICA LTDA
Certificato emesso il 18/05/2020 Fatt. n° 1300-1 del 18/05/2020
Dimensioni: 280 x 15 20 MT Pezzi: 2 Col./Entr.: 0319262009
Vs.Rif. B52000541 Item: CUSTOM TARIFF 7304 3120

F. ZAMBRUNO

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(A01 – A10, Z02)
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IT-27020 Parona Lomellina (PV)

Document number	Date	Page
30/3/19/01060/E	11.10.2019	2/ 3

To delivery note no. 30735050
Delivery date 11.10.2019
order no. 200041854
Destination Italy
Inspection representative Bunzendahl
Manufacturer's works SMST Remscheid
Tel. 02191/895-205
Fax 02191/895-499

Purchaser order number	Date of order	Consignee	Consignee order number
2010	18.06.2019	802168 Oleomatic SAS	

Formulas:

EF1: V + Ti + Nb
EF2: CAE = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

(C00 – C04, C10 – C14)
Tensile tests

Order number	Proof-temperature	Yield/proof strength	Tensile strength	RP/RM	Elongation	Reduction
3757784/1	RT	Rp 0,2 MPA	MPA		%	%
Desired values					A	
Minimum			660		15.0	
Maximum			700			

Heat-no.	Sample-no	Pipe-no.	Orientation					Width	Thickn.
0319262009	566		1	728	796	0.91	20.4		

Location of the sample and direction of the test piece:

1 = base material, longitudinal

(C50 – C69, D01 – D51)
Results of other check:

Visual and dimensional inspection : satisfactory
Material identification test of all tubes by spectrographic analysis : satisfactory

(A04, B06)
Marking of products:

MPT RE – HPZ – Dimension – Standard – Material – delivery status – Heat – GERMANY – WA

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Tel.: 02191/895-205
Fax: 02191/895-499

Purchaser order number	Date of order	Consignee	Consignee order number
2010	18.06.2019	802168 Olecretic SAS	

(Z01)
Statement of compliance
The products have been manufactured by MST-D in order of MPT, marked with MPT-RE, tested with the purchase specification and are found to be satisfactory.

Alteration of this testimonial and certification or use for other products is not allowed and are regarded as falsification of documents and will be subjected to criminal jurisdiction.

INSPECTION REPRESENTATIVE

J. Bunzendahl-Bremer

Bunzendahl - Bremer

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IT-27020 Parona Lomellina (PV)

Document number	Date	Page
30/3/20/00136/E	04.05.2020	1/ 3

To delivery note no.	Delivery date
30754993	17.03.2020
order no.	Destination
200042424	Italy
Inspection representative	Manufacturer's works
Bunzendahl	SMST Remscheid
Tel.	Fax
02191/895-205	02191/895-499

Purchaser order number	Date of order	Consignee	Consignee order number
3215	23.10.2019	802981 SICAM Centro S.R.L.	

(B01 – B14)

Item	Article/Dimension (mm)	...quantity	...length/m ..length/ft	...weight/kg ..weight/lbs
1	10129828	11	111.250 364.993	10895 24019
	280,00x15,00x10,00-10,5mMGRADE660+SRHB			

out.diam. 280,000 * ins.diam. 250,000 MM
cylinder tube (HP-tube) / seamless, cold finished
DIN EN 10305-1, Edt. 08.2016
MW-Grade 660
condition of delivery: +SR
plain unmachined ends / inspection certificate 3.1 acc. to DIN EN 10204:2005-01
surface protection outside: with temporary protection against corrosion group 0
/ surface protection inside:
with group 0 temporary protection against corrosion
roughness RA max. 0,400 MY
Random length 10.000,000 – 10.500,000 MM
mark. on tubes: mark. on tubes: continuous marking:
- manufacturer's mark
- type of tube
- dimension
- delivery standard
- steel grade
- delivery condition
- batch number
- additionally:
- country of origin
end protection: tube ends closed with blue plastic caps
bundled, bundles with 2 nonreturnables liftig straps
quant.tolerance in %
10,000- / 10,000

(C70 – C93)
Chemical composition/ladle analysis %

	C	Si	Mn	P	S	Al	Cu	Cr	Ni	Mo	V	As	Ti	Nb	Co	N
	Pb	EF1	EF2													
min.			1.00			0.020										
max.	0.200	0.600	1.70	0.025	0.0300		0.700	0.30	0.80	0.100	0.200		0.040	0.050		0.0200
		0.22														
Heat-no.	F															
0319262009	2	0.180	0.440	1.54	0.014	0.0010	0.020	0.170	0.16	0.16	0.040	0.110	0.003	0.004	0.001	0.0060	0.0130
		0.001	0.12	0.52													
9020995158	2	0.170	0.450	1.55	0.017	0.0020	0.020	0.180	0.19	0.14	0.020	0.100	0.012	0.005	0.002	0.0110	0.0139
		0.000	0.11	0.51													

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Spett. HYVA DO BRASIL HIDRAULICA LTDA
Certificato emesso il 26/05/2020 Fatt. n° 1300-1 del 18/05/2020
Dimensioni: 280 x 15 30 MT Pezzi: 3 Col./Entr.: 9020995158
Vs.Rif. B52000541

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30/3/20/00136/E	04.05.2020	2/ 3

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Fax 02191/895-499

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3215	23.10.2019	802981 SICAM Centro S.R.L.	

E = Steelmaking process:

2 = Oxygen

Formulas:

EF1: V + Ti + Nb
EF2: CAE = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

(C00 – C04, C10 – C14)
Tensile tests

Order number	Proof-temperature	Yield/proof strength	Tensile strength	RP/RM	Elongation	Reduction		
3766473/1	RT	Rp 0,2 MPA	MPA		%	%		
Desired values					A			
Minimum		660	700		15.0			
Maximum								

Heat-no.	Sample-no	Pipe-no.	Orientation					Width	Thickn.
0319262009	726	1		686	772	0.89	20.6		
9020995158	727	1		710	786	0.90	21.0		

Location of the sample and direction of the test piece:

1 = base material, longitudinal

(C50 – C69, D01 – D51)
Results of other check:

Visual and dimensional inspection : satisfactory
Material identification test of all tubes by spectrographic analysis : satisfactory

(A04, B06)
Marking of products:

MPT-RE - HP - Specification - Material - Delivery Condition - Size - Heat - Germany - WA

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