



TMK-ARTROM S.A.

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 EUID: ROONRC.J28/9/1991; J28/9/31.01.1991
 VAT No. RO 1510210/1992
 Subscribed and Paid Share Capital: 291.587.538,34 lei

SEAMLESS PRECISION STEEL TUBES

1. Standards

EN10305-1

DIN 2391 (has been replaced with EN 10305-1)

2. Used

In mechanical and automotive industries.

3. Dimensions, Tolerances

- Precision steel tubes DIN 2391 and EN 10305-1 according Tab.1;
- Precision steel tubes for honing according Tab.2

4. Chemical Composition (%)

Steel Group	C	Si	Mn	P max	S max	V
St35, E235	max 0.17	max 0.35	min 0.40	0.025	0.025	
St45	max 0.21	max 0.35	min 0.40	0.025	0.025	
St52, E355	max 0.22	max 0.55	max 1.60	0.025	0.025	
E410, STE460	0.16÷0.22	0.10÷0.50	1.30÷1.70	0.030	0.035	0.08÷0.15

5. Mechanical Properties

Steel Group	delivery cond.	Tensile Strength	Yield Limit	Elongation
		N/mm ²	N/mm ²	%
St35, E235	BK (+C)	min 480	-	min 6
	BKS(+SR)	min 420	min 350	min 16
	NBK (+N)	340÷480	min 235	min 25
St45	BK (+C)	min 580	-	min 5
	BKS(+SR)	min 520	min 375	min 12
	NBK (+N)	440÷570	min 255	min 21
St52, E355	BK (+C)	min 640	-	min 4
	BKS(+SR)	min 580	min 450	min 10
	NBK (+N)	490÷630	min 355	min 22
E410, STE460	BKS	min 690	min 590	min 12
	+N	550÷700	min 410	min 22

6. Lengths

- Random lengths: 6÷9 m or 8÷11 m according Tab.3;
- Fixed lengths within the random lengths range;
- Tolerances: +100/-0 mm.

7. Protection

- Unprotected;
- External varnished with black or clear lacquer;
- If required, the tubes can be delivered with plastic caps at both ends;
- Oiled.

8. Marking

The tubes will have technical details marked on tags attached to every bundle.
 According to standard or per customer request.

9. Delivery

Bundles up to 2000 kg.

Quantity tolerances: ±5% per size or / and per total.

TMK EUROPEAN DIVISION Cod: FCU-01, Ed. 3 Rev. 3/2019



API:
5CT-0440
5L-0352

LR:
ISO 9001
ISO 14001
ISO 45001

TUV:
PED/AD-2000 W0/W4
TRD 100/102
Vd TUV

TUV CPR:
EN 10210-1,2
EN 10255

LR
DNV-GL Rules
RINA

LR:
IATF 16949



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10. Mill test report

Mill test reports are issued to customer requirements. Usually they comply with EN 10204, type 3.1.

12. Quality certified:

LR, MLPTL.

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API:
5CT-0440
5L-0352

LR:
ISO 9001
ISO 14001
ISO 45001

TUV:
PED/AD-2000 W0/W4
TRD 100/102
Vd TUV

TUV CPR:
EN 10210-1,2
EN 10255

LR
DNV-GL Rules
RINA

LR:
IATF 16949