



AE STEEL

MECHANICAL TUBES

Scope of application	Seamless non-alloy steel pipes for mechanical and general engineering purpose. Used for production of machine parts, linepipe ,vessel construction, general mechanical engineering and tool building under 300°C.
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Standards	Quality of Material
DIN 1629 (has been partially replaced by EN 10297-1)	St37.0, St44.0, St.52.0
DIN 1630 (has been partially replaced by EN 10297-1)	St37.4, St44.4, St.52.4
DIN 17204 (has been partially replaced by EN 10297-1)	C22, CK22,C35, CK35, C45, CK45
	C10,CK10,C15,CK15
EN 10294-1	E355+AR, E355+N 20MnV6 +AR&N
EN 10297-1	E235, E275, E355,C60E, 38Mn6 25CrMo4,42CrMo4,16MnCr5
EN 10216-1,3	P195TR1&TR2, P235TR1&TR2, P265TR1&TR2, P355N, P460N
EN 10083-2	C22, C35, C40, C55, 28Mn6

Dimension Range	16 mm up to 609,6 mm
Outer Diameter	2,0 mm up to 100 mm
Wall Thickness	

Standard	Outer Diameter	Tolerances	Wall Thickness	Tolerances
DIN 1629, DIN1630	OD≤130	±1% (but ± 0.5mm is permitted)	WT≤2Sn	+15/-10%
			2Sn<WT≤4Sn	+12.5/-10%
	WT>4Sn		±9%	
	130<OD≤244.5		WT≤0.05OD	+17.5/-12.5%
0.05OD		±12.5%		
<WT≤0.11OD		±10%		
		WT>0.11OD		
EN 10210-1,2		±1% or ±0.5mm (which is higher)		-10%
EN 10297-1, EN 10216-1		±1% or ±0.5mm (which is higher)		±12.5% or ±0.4mm (which is higher)
EN 10216-3 Hot Rolled		(±1% or ±0.5mm (which is higher)		
EN 10216-3 Cold Rolled		(±0.5% or ±0.3mm (which is higher)		±10% or ±0.2mm (which is higher)

Sn: Nominal wall thickness according to DIN 2448

Lengths	- 6 and 12 meters - 5-12m(16.4-39.8 ft) with respect to customer demand for special production - Tolerances: +100/-0mm (+3.94/-0 in)
Protection	- Unprotected - External varnished with black lacquer - plastic caps at both ends
Marking	According to standard or per customer request for special production
Certification	Usually they comply with EN 10204 3.1 (If it is wanted during order for special production then EN 10204 3.2 issued)

