

Stabilizer

Product information | Technical data sheet

Mubea Precision Steel Tubes produce welded and welded-drawn precision steel tubes meeting the highest quality standards made of high-tensile grade steels for stabilizers.

The application in the area of the automotive industry is very reliant on quality. Any failure of the component must not be relevant to safety. Lightweight construction

is possible in drawn tubes with varying wall thickness - as Tailor Drawn Tubes (TDT) - or by utilizing high-tensile materials.



Tube requirements

Very good formability
High torsional strength and durability
Very good welding properties
High geometrical accuracy
Excellent surface condition

Material properties

High strength, in particular heat treatment (Q+T) rather than just tempering (T)
Excellent reforming properties
Minimised residual stress
Potential to reduce wall thickness

Structure

Homogeneous, fine-grain structure in weld seam and basic material
Minimised surface decarburisation of inner and outer surfaces (<50 µm)
Very good weld seam quality
Very good reforming properties

Geometry

Minimised fluctuations in wall thickness and inner/outer diameter
Minimised eccentricity
Specific tube end processing: sawn/brushed; chamfered

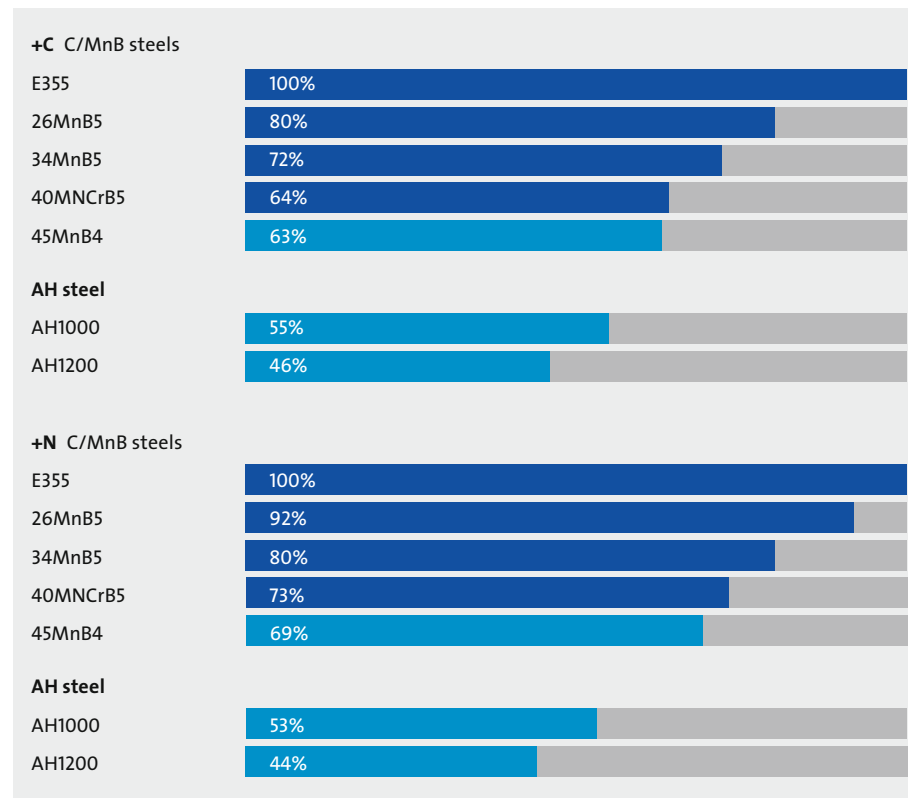
Surface

Minimised surface flaws (adhesions, scratches, dents, etc.)
Minimised corrosion protection, optionally specific corrosion protection
Increase of compressive stresses through shot peening (outside/ inside diameter)

Materials & dimensions

Application	Tube standard	Steel grades	Delivery condition	Dimensions range mm
Stabilisator	✓ EN 10305-2	✓ E355	✓ +C ✓ +N ✓ +QT	✓ OD 18 - 75 ✓ WT 2 - 7.0 also available as TDT tube with variable wall thickness
	✓ EN 10305-3	✓ 26MnB5 ✓ 34MnB5 ✓ 40MnCrB5 * 44MnB3 * 45MnB4 * AH1000 * AH1200		

Extract from achievable weight-savings



✓ Series production
* in validation

AH: air hardening
TDT: Tailor Drawn Tube
OD: ø outside diameter
WT: wall thickness