

Stabilizer

Product information | Technical data sheet

Jansen Steel Tubes and 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 (< 100 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

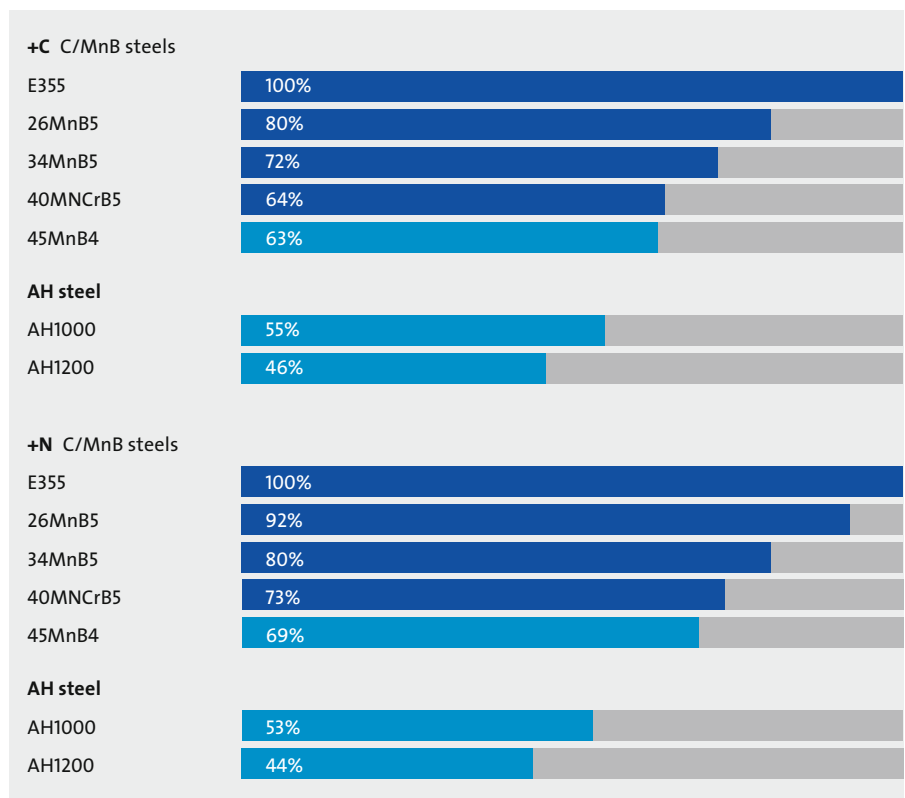
Surface

- 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 (Car)	✓ EN 10305-2	✓ E355	✓ +C ✓ +N	✓ OD 16 - 45 ✓ WT 2 - 6.5 also available as TDT tube with variable wall thickness
	✓ EN 10305-3	✓ 26MnB5 ✓ 34MnB5 ✓ 40MnCrB5 * 44MnB3 * 45MnB4 * AH1000 * AH1200		
Stabilisator (HGV)	✓ EN 10305-2	✓ 34MnB5	✓ +C ✓ +N	✓ OD 50 - 90 ✓ WT 4 - 8.0 also available as TDT tube with variable wall thickness
	✓ EN 10305-3	* 40MnCrB5 * 44MnB3 * 45MnB4 * AH1000 * AH1200		

Extract from achievable weight-savings



✓ ■ Series production
* ■ in validation

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