

Product range

ETG[®] 25 is available in the following finishes and sizes:

Other categories to meet special requirements (e.g. mechanical properties) are available to special order.

Regular sizes are available from stock.

Process	Size range mm	Tolerance
drawn	≥ 4.0 – ≤ 28.0	h9
ground	≥ 4.0 – ≤ 28.0	≥ IT6

- » Bar lengths: 3–6.5 m
- » Colour coding: yellow end-face

Chemical analysis

Melt analysis in % by weight

Element	C	Si	Mn	P	S
min.	0.24	0.10	1.20		0.02
max.	0.29	0.30	1.50	0.04	0.04

Deviation of product analysis from limits specified in cast analysis in accordance with EN 10087. Killed with aluminium or agents having a similar effect. The analysis complies with SAE 1527, comparable with 28Mn6 (1.1170).

Mechanical properties as drawn

Guide values

Static					
Dimensions	Ø	mm	≤ 16	>16 – 30	>30 – 40
Proof stress	R _{p0.2}	N/mm ²	≥ 660	≥ 660	≥ 660
Tensile strength	R _m	N/mm ²	800 – 950	830 – 950	800 – 950
Ultimate elongation	A ₅	%	≥ 12	≥ 12	≥ 12
Reduction of area	Z	%	≥ 45	≥ 45	≥ 45
Hardness	HV10		230 – 300	255 – 336	230 – 300
Notched impact energy	A _{U_{RT}} (ISO-U)	J	≥ 22	≥ 22	≥ 22
Dynamic					
Tension/compression	σ _{zdw}	N/mm ²		ap. 360	
Reverse bending					
Specimen without notch	σ _{bw}	N/mm ²		ap. 390	
Specimen with notch α_k=4.0	σ _{bw}	N/mm ²		ap. 125	
Torsional reversal	τ _{tw}	N/mm ²		ap. 175	