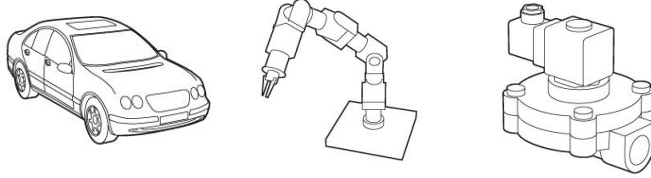


# Ergste® 1.4105IU Automotive Datasheet & Automation Technology | Precision Wire



Zapp is Certified to ISO 9001 | IATF 16949



## Categoryzation

- Ferritic, corrosion resistant steel
- DIN EN 10088-3
- AISI 430F

## Typical Applications

Ergste® 1.4105IU is mainly used for turned parts in volume production with moderate requirements in corrosion resistance. Due to its ferritic structure it can also be used in some solenoid applications

## Processing and Usage Properties

Ergste® 1.4105IU (similar to X6CrMoS17) is a stainless free cutting steel. It is designed for the volume production of precision turned parts. It is resistant in water, steam and other less aggressive media. If welding is necessary, plasma- or laser welding should be preferred. The steel is suitable for cold forming operations within certain limits.

For improved properties in selective cases we recommend the following Ergste® grades:

## Cold Heading

- Ergste® 1.4003IA
- Ergste® 1.4016IM
- Ergste® 1.4511IA

## Corrosion Resistance

- Ergste® 1.4113IM

## Machinability

- Ergste® 1.4005IA

## Magnetic Properties

- Ergste® 1.4005IA
- Ergste® 1.4105IL

## Weldability

- Ergste® 1.4511IA

## Typical Analysis\*

C	Si	Mn	S	Cr	Mo
0.05	1.0	0.60	0.30	17.00	0.30

\* weight percentage/approximate value

## Mechanical and Physical Properties

Tensile strength (soft annealed)	450 - 650 [MPa]
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## Magnetic Properties of Round Bars

Coercitive strength*	Hc < 480 [A/m]*
Maximum relative permeability	n. A.
Saturation polarization*	Js > 1.5 [T]*

\*These properties must be agreed upon on request.

## Delivery Forms\*

Round bars	Annealed, ground
Profiles	Annealed, straightened

\* Crack tested according to DIN EN 10088-3, Table 1 Surface class 1-3, US-Testing: KSR (FBH) 0.7 mm or better

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Further information regarding our products and locations are available in our image brochure and under [www.zapp.com](http://www.zapp.com)

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