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Acidur 4529

Special steel solution
for chloride-containing
and aggressive media

Swiss Steel Group
www.swisssteel-group.com



Member of Swiss Steel Group

Steels for demanding media

High-performance steel is used in different areas of structural and civil engineering and must be well prepared for the respective application.

Stability and extraordinary load-bearing capacity must be guaranteed. These steels are used, for example, in tunnel and swimming pool construction. Chloride-containing and aggressive media influence the components and their functionality.

Changing spatial structures and the creation of new infrastructures are leading to a rise in demand for customized solutions specific to the property or construction site in question.

Special steel solutions from Deutsche Edelstahlwerke

With our convincing and tailor-made steel solutions, our experience and our know-how, we offer a specific and individual realization of the special projects of our customers.

In addition to the mechanical properties, the corrosion resistance of fastening elements is an important property. Corrosion attacks the reinforcement of buildings and leads to cost-intensive maintenance work. We have the right solution for optimized protection against corrosion and reduced damage.

The stainless superaustenitic steel Acidur 4529 is optimally prepared for the high requirements in chloride-containing and aggressive media.

Due to its high resistance to pitting corrosion and stress corrosion cracking and its good combination of strength and toughness this special steel is ideal for fastening elements.

Acidur 4529 at a glance

General properties

Corrosion resistance	excellent
Mechanical properties	good
Forgeability	average
Weldability	good
Machinability	average

Special properties

Good polishability
Suitable for use at temperatures up to 400°C
Non-magnetic ($\mu_r \leq 1,01$)

Processing properties

Automatic machine processing	no
Machining	yes (with care)
Hammer and die forging	yes
Cold forming	yes
Cold heading	yes

Delivery conditions

Wire rod	Ø 5.5 - 30.0 mm
Bright steel in bars	Ø 7.0 - 40.0 mm
Bright steel in coils	Ø 7.0 - 20.0 mm
Bars	on request

Completion: solution annealed/ quenched, drawn, forged, rolled, straightened and peeled/grounded