

STRUB Vulcodur Aqua

Quenching polymer concentrate for induction and flame hardening systems

Art.-No. 31462

Description

STRUB Vulcodur Aqua is based on toxicologically safe polymers that allow very different cooling characteristics depending on the application concentration. The cooling intensity of water is thus specifically moderated. At the same time, controlled and uniform heat dissipation from the workpiece is ensured.

Application

Universally applicable PAG polymer quenchant for surface hardening in the borderline area of water / oil quenching. Due to its excellent properties STRUB Vulcodur Aqua is recommended for the following applications:

Application concentration

Materials	Concentration
Low and unalloyed steels C35, C45, CK35, CK45, 34Cr4, 37MnSi5 C60, C70, 41Cr4, 55Si7, 100Cr6	5 - 8 % 8 - 15 %
Higher alloy steels 42CrMo4, 50CrV4 u.ä.	15 - 20 % (max. 30 %)
Austenitic sheets, tubes and profiles	5 - 10 %
Age-hardenable aluminum alloys	10 - 30 %

Features and advantages

- The quenching characteristic changes with the application concentration. A low concentration leads to "rough" characteristic, similar to water, higher concentration similar to hardening oil
- no formation of steam skin on the workpiece
- excellent cooling activity in the area of martensite formation
- non-flammable and less smoke

Technical data

Color		green, clear
Density 20°C	g/ml	1.07
pH value: concentrate		9.5 - 10.5
5% solution		9.5
pour point		- 4°C
Corrosion test DIN 51360/2 (4%)		Corrosion degree 0
Factor refractometer reading		2.7

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.

Transport

ADR/SDR

No dangerous goods

Disposal

LVA VeVA / EAK:

12 01 99

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