

S20



Description

S20 is a liquid, acidic, foam-inhibited cleaning concentrate for ultrasonic, immersion and splash cleaning of acid-resistant parts and medical devices such as medical and laboratory instruments, implants etc. made of stainless steel, glass, ceramic and plastic.

S20 removes mineral contamination like lime scales, lime soaps and other Ca- and Mg-bound contamination, metal oxides (rust) and flux residues after soldering, mineral oils and greases (remove animal and vegetable oil and fat using alkaline cleaner before), fingerprints and dust. Brightens tarnished metallic surfaces (but not temper colours).

The product is suitable for the acidic fundamental cleaning of medical instruments and (ceramic) implants. Fundamental cleaning of medical instruments is recommended periodically, e.g. half-yearly. Rusty instruments should first be separated and cleaned with **S20**. Dark tarnishes from disinfecting/cleaning agents after sterilization and dark traces from blood after sterilization are removed.

Not suitable for aluminium, magnesium and alloys of light metals. Check acid-sensitive glassy materials before use. Attention: tarnishing may happen with different metals in the cleaning bath!

Application and Dosage

- Ultrasonic bath: Dosage: ~1-2 % by volume in tap or deionised water, i.e. for 1 liter of 1 vol.-% solution mix 10 ml **S20** with 990 ml water • Temperature: 50-75 °C.
- Splash cleaning: Dosage: ~0,5 % by volume in tap or deionised water • Temperature > 55 °C.
- Immersion bath: Dosage: > 2 % by volume in tap or deionised water.
- Milkiness of heated cleaning solution does not reduce the cleaning performance.
- Rinse cleaned surfaces thoroughly with water and dry.
- Rinse rust-sensitive surfaces with corrosion protection additive elma-KS, ~0,1 vol.-%, blow off or dry immediately.

Safety Recommendations

S20 is classified as hazardous according to the Regulation (EC) No 1272/2008 [GHS] (acutely toxic (oral) - category 4, skin corrosive and serious eye damage, corrosive to metals [aluminium]).

Observe also with respect to this the hints indicated in the safety data sheet and always handle chemicals with care. Please report any serious incident!

Physical-chemical characterisation

- Density: 1.32 g/ml • pH (concentrate): <1.
- Ingredients according to Annex VII A, Regulation (EC) No 648/2004 on detergents: 15-30 % non-ionic surfactants, >30 % phosphates (phosphoric acid).

Disposal

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents. The used cleaning solution can be fed into the public sewage system after neutralisation; observe the local pH limit values and make sure that the contamination contained in the used cleaning solution complies with the local sewage regulations. Recommendation: lime or soda lye for neutralisation.

European waste code: 20 01 29*, „detergents containing dangerous substances“.

Volumes, Storage and Transport

- Available volumes: 1 l PE-bottle [REF](#) 8000802, 5 l HDPE-can [REF](#) 8000803, 25 l HDPE-can [REF](#) 8000804 und 200 l barrel [REF](#) 8000805.
- Store in closed original container at dry place, at temperatures between -5 °C and 30 °C, protected from heat and direct solar radiation. Do not store with alkalies. Provide acid-resistant floor.
- Shelf life: 4 years from date of production (see lot on label).
- Classification for all means of transport: class 8, UN 1805.

Accessories

- Tap (outlet tap): for 5 / 10 l cans [REF](#) 8000003927 • for 25 l can [REF](#) 8000003928.
- Dosing cup: 250 ml vol./5 ml-scale [REF](#) 8000643 • 1000 ml vol./10 ml-scale [REF](#) 8000647.

General information and exclusion

- This cleaning agent is not intended for cleaning or hydrating contact lenses.
- Only instruments and other medical devices that are approved for ultrasonic, immersion or spray cleaning as well as reusable and authorized for reprocessing, are permitted to be cleaned with this cleaning agent (see information of the medical device manufacturer according to EN ISO 17664).
- When using an ultrasonic device or spray cleaning machine, the instructions of the ultrasonic or spray cleaning device manufacturer must be observed. The safety instructions for the cleaning devices used must also be observed and are not part of this product information.
- The user is responsible to validate the cleaning result. Check instruments for cleanliness and function!
- Use water with drinking quality or quality according to the RKI (Robert-Koch-Institut) recommendation for rinsing.
- After cleaning, disinfection, sterilization or final disinfection must take place depending on the type and classification of the medical device.

- Please report any serious incidents related to the product to:
 - Elma Schmidbauer GmbH · info@elma-ultrasonic.com · Tel. +49 7731 882-0
 - or to the competent authority in your country.