

elma clean 112 (EC 112)

**ALKALINE, TENSIDE-FREE CLEANING COMPONENT
LIQUID, FOR THE REMOVAL OF TENACIOUS STAINS FROM METAL AND
ARTIFICIAL SURFACES; FOR THE USE IN ULTRASONIC BATHS**

Description

Suitable as basic sodium-free builder component for the (ultrasonic) immersion cleaning of numerous metal surfaces (steel, nonferrous heavy metals, etc.), numerous surfaces of plastic materials, rubber surfaces.

The use of this basic component ensures in applications together with surfactant boosters the removal of lapping and polishing pastes as well as scaled and gummy oil and grease, wax (when used at correct temperature), residual lacquer and paint.

Not suitable for aluminium. Check magnesium, its alloys and plastics for compatibility before use.

Application and dosage

To be applied together with cleaning boosters (containing surfactants) such as *elma clean 212 (EC 212)*.

Dosage: 3 - 5 mass% in water, with 0.3 – 0.5 % additional cleaning booster.

Bath temperature 40 - 90°C. Cleaning time: 3 - 10 min in ultrasonic bath.

Thoroughly rinse pieces with water and dry.

Suitable for cleaning and maintenance of the cleaning bath by membrane filtering.

Safety recommendations

elma clean 112 (EC 112) is classified as hazardous according to the regulation (EC) No 1272/2008 [GHS] (skin corrosive and serious eye damage, acutely toxic: harmful, corrosive to metals [aluminium]). Observe also with respect to this the hints indicated in the Safety Data Sheet and always handle chemicals with care.

Physical-chemical characterisation

Density: 1.362 g/ccm, pH (concentrate): 14, pH (2% solution): 12.6 .

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): 5-15% phosphates. Does not contain silicates and surfactants.

Disposal

The organic components are biodegradable according to the OECD test 302B.

The cleaning bath can be fed into the public sewage system after neutralisation; observe the local pH limit values and make sure that the contamination contained complies with the local sewage regulations. For neutralisation we recommend: acetic acid or citric acid in ultrasonic bath – do not use hydrochloric acid or sulphuric acid !
European waste code: 20 01 29*, „detergents containing dangerous substances“.

Volumes, storage and transport

Available volumes: 10 liter can, 30 kg can and 270 kg barrel.

Store in closed original container at a temperature between -5°C and +30°C, protected from heat and direct solar radiation. Do not store with acids.

Shelf life: 3 years from date of production (see stamp on label).

Classification for all means of transport: class 8, UN 1814.

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