

elma chrono clean 1 : 20

**AQUEOUS LIQUID CLEANING CONCENTRATE FOR
DISASSEMBLED WATCH WORKS OF CLOCKS AND WALL CLOCKS
AS WELL AS FOR PRECISION MECHANICS AND ASSEMBLIES**

Description

Cleans and degreases disassembled watch works of clocks and wall clocks, metal precision parts and assemblies in an ultrasonic bath. It removes greases, waxes and resinous oil efficiently. Also traces of rust will be removed step by step. The cleaning solution is nearly pH-neutral and causes a gentle cleaning. Brass and copper alloys are brightened. *elma chrono clean 1 : 20* achieves a temporary corrosion inhibition for steel after cleaning.

Application and dosage

With an ultrasonic bath the concentrate is used in a 1 : 20 dilution ratio with tap water. The cleaning time is between 5 and 15 minutes according to the grade of contamination. Temperature: 60 – 75 °C; for hard oils/waxes above their softening points.

After cleaning rinse with water, then with deionized water or waterfree rinsing solution like *elma suprol special* or IPA (isopropyl alcohol) to displace the water completely and let dry by air.

Hotline for application consulting

Working days: Tel. ++49 (0) 7731 882-287. Email: chemlab@elma-ultrasonic.com

Safety recommendations

The concentrate itself is classified as Flammable and Irritant (Xi, R10-41-67) according to the German regulations on dangerous substances / EC directives. Observe the hints indicated in the Safety Data Sheets. Always handle chemicals with care.

Physical-chemical characterisation of the concentrate

Density: 1075 g/l, pH 8.5 (concentrate), flash point: 33 °C. Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): <5% amphoteric surfactants, <5% anionic surfactants, 2-Bromo-2-nitropropane-1,3-diol (~2 ppm).

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 diluted solution can be fed into the public sewage system according to the local regulations.

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

Volumes, storage and transport

Available volumes: 1l, 10l and 25l. Store in closed original container only, at temperatures above +5 °C but at cool place, protected from heat and direct solar radiation. Do not store with oxidizing agents.

Shelf life: 5 years from date of production (see stamp on label).

Classification for all means of transport: class 3, UN 1274.

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