

# Elma solutions for the cleaning of watches and clocks

Cleaning chemicals developed and produced by Elma

All products available in various volumes.



### elma suprol pro

Ready-for-use rinsing solution for watches/clocks, without water

### elma reinigungslösung wf pro

Ready-for-use cleaning solution

### elma unisol

Lubricant concentrate for complete lubrication

### elma unimix

Ready-for-use lubricant for vibration mode

### elma spiro

Ready-for-use degreaser for balance wheels and hairsprings

### elma chrono clean 1:20

Cleaning concentrate for watches/clocks

### elma reinigungskonzentrat 1:9

Cleaning solution for disassembled watches/clocks

	aqueous cleaning concentrates suitable for use in ultrasonic bath		non-aqueous solutions				
			for cleaning	for rinsing	for degreasing	for lubricatin	
Elma watch/clock cleaner	elma reinigungskonzentrat 1:9	chrono clean 1:20	elma wf pro	elma suprol pro	elma spiro	elma unimix	elma unisol
	cleaning concentrate • aqueous	ultrasonic cleaning concentrate • aqueous	cleaning solution • non-aqueous • ready for use	rinsing solution • non-aqueous • ready for use	degreasing solution • non-aqueous • ready for use	one-bath lubricant • non-aqueous • ready for use	lubricant • non-aqueous • ready for use
Application	aqueous cleaning of disassembled watches/clocks, e.g with ultrasound after rotation or vibration mode.	Cleaning of disassembled watches/clocks, components. Resin remains, traces of rust are removed: Brass and copper-containing alloys are brightened.	Non-aqueous cleaning for mechanic watches in watch cleaning machines. Cold cleaner for the removal of resin remains, for cleaning and brightening.	Rinsing solution for the rinsing without remains in watch cleaning machines for non-aqueous cleaning. Water-displacing after cleaning in aqueous solution, eg. 1:9 or chrono clean 1:20	Immerse and wave balance wheels and hairsprings in elma spiro in a tank of little volume.	Lubricant for the relubrication of cleaned watches and precision parts.	lubricant for the oiling of watch/clockworks and other mechanic precision components.
Features	liquid, ammoniacal, emulsifying.  pH value: 10.5 alkaline	liquid, emulsifying.  pH value: 8.5 neutral	liquid, without CKW, Few aromatic compounds, emulsifying.	liquid, without CKW, few aromatic compounds.	liquid, without CKW, few aromatic compounds.	liquid, without CKW, few aromatic compounds.	liquid, few aromatic compounds.
Dosing	ultrasound: 9 % = 90 ml/l or 1:9	ultrasound: 5 % = 50 ml/l or 1:20	ready for use	ready for use	ready for use	ready for use	ready for use or shake vigorously with suprol spezial, mix 1:33
Period/temperature	ultrasound: 3-10 min. room temperature	ultrasound: 5-15 min. up to 75°C	3-12 min. room temperature	ca. 3 min. room temperature	ca. 3 min. room temperature	ca. 3 min. room temperature	ca. 3 min. room temperature

