

Elma solutions for the cleaning of watches and clocks

Cleaning chemicals developed and produced by Elma

All products available in various volumes.



Elma Reingungslösung wf
Ready-for-use cleaning solution

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

Elma unimix
Ready-for-use lubricant for vibration mode

Elma Spirol
Ready-for-use degreaser for balance wheels and hairsprings

Elma Chrono clean 1:20
Cleaning concentrate for watches/clocks

Elma unisol
Lubricant concentrate for complete lubrication

Elma Reingungskonzentrat 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 reingungskonzentrat 1 : 9	chrono clean 1 : 20	elma reingungslösung wf	elma suprol spezial	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



Elma solutions for the cleaning of jewellery

Cleaning chemicals developed and produced by Elma



Elma ultra clean

Gentle cleaning concentrate for jewellery with stones, brightening effect

Elma clean 85

Cleaning concentrate for jewellery

Elma clean 75

For the cleaning of jewellery

Elma super clean

Cleaning concentrate for jewellery

Elma noble clean

Jewellery cleaner

	production containing ammonia brightening effect	production jewellery manufacturing odorless	customer service worn jewellery	production + service customer service excellent for US/immersion bath universally applicable	customer service silver jewellery and cutlery deoxidizing immersion bath with tarnish preventive					
Elma jewellery cleaner	elma clean 75	elma clean 85	elma super clean	elma ultra clean	elma noble clean					
	workshop, repair, manufacturing; removes processing media, not suitable for soft stones, strong brightening effect on gold/silver alloys and nonferrous heavy metals	workshop, manufacturing, exhibits; removes processing media, suitable for sensitive precious metal and fancy jewellery, also for soft stones; no brightening effect	exhibits, customer service; suitable for sensitive gold/silver jewellery with stones; brightens gold/silver alloys	workshop, exhibits, customer service; removes processing media; suitable for sensitive gold jewellery, also with stones; makes gold shine brightly	strong brightening effect within seconds, intensive cleaning of silver, gold and other precious metal alloys; observe safety instructions!					
	intensive cleaning	heating recommended	very gentle	heating recommended	gentle	heating recommended	gentle	heating recommended	strong	heating recommended
For the cleaning of										
Precious metals / alloys	+		+	yes	gentle	+	gentle	yes	strong	
Nonferrous heavy metals / alloys	+		+	yes	+	+	+	yes	+	
Jewellery with stones	+		+	(yes)	+	+	+	(yes)	+	
Fancy jewellery	(+)		+	(yes)	+	+	+	(yes)	-	
Suitable for soft stones*)	-		+	(yes)	(+)	+	+		-	
Pearls*)	-		+		-	+	(+)		-	
Corals*)	-		+		-	-	-		-	
Brightening effect	strong / quick		none		gentle/slow		gentle/slow		extremely quick	
Gold alloys	++		-		+		+++	yes	++	
Platinum alloys	-		-		-		+	yes	++	
Silver and silver alloys	+		-		+		+	yes	+++	
Nonferrous heavy metals (brass etc.)	++		-		+		+	yes	+	
Removes										
Dust/sweat, grease	+		+++	yes	++	yes	++	yes	+	
Polishing media **)	++	yes	+++	yes	-		++	yes	+	yes
Waxes**) and resins	+	yes	++	yes	-		++	yes	-	
Treatment emulsions	+		+	yes	+	yes	+	yes	+	
Suitable for the use in										
Ultrasonic bath*)	+		+		+		+		+	
Immersion bath	(+)		+		-		+		+	
Wipe-cleaning	-		-		-		-		+	
Concentration	5 %		5 %		5 %		US bath: 5 % immersion bath: 20 %		gebrauchsfertig US bath: diluted 1:1	
Special features										
Containing ammonia	yes		no		little		no		no	
pH, concentrate	10,9		9,3		10,2		12		1 - 2	
pH, solution used	ca. 8,5		ca. 8		ca. 9		ca. 10,5		1 - 2	
Restrictions	() : The use of the cleaner for this application or with heated cleaning medium must be checked beforehand. *) Do not operate the ultrasonic unit at frequencies below 50 kHz for the cleaning of soft stones, pearls, corals - cleaning in immersion bath only. **) For the removal of waxes and polishing media always operate at temperatures above softening point of the respective medium.									

Subject to technical and optical changes reserved, Elma_Uhren/Schmuckreiniger_10710



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