


# Elma Jewellery Cleaner

Elma: Jewellery Cleaning Agent	elma clean 75		elma clean 85		elma super clean		elma ultra clean		elma noble clean	
	Product-info	! Safety	Product-info	! Safety	Product-info	! Safety	Product-info	! Safety	Product-info	! Safety
	Workshop, repair, manufacturing. Removes machining agents. Not for soft gemstones. Strong brightening of alloys of gold and silver.		Workshop, manufacturing, exposed items. Removes machining agents. For sensitive jewellery with gemstones and fashionlike jewellery. No brightening.		Exposed items, customer service. For sensitive jewellery with gemstones. Brightens slightly.		Workshop, exposed items, customer service. Removes machining agents. Sensitive jewellery from gold& -alloys, with soft stones also. Brightening effect for gold.		Brightening within seconds. Intensive cleaning of silver and gold alloys as well as of platinum and -alloys. Respect the safety instructions.	
		heating recomm. ?		heating recomm. ?		heating recomm. ?		heating recomm. ?		heating recomm. ?
<b>For the cleaning of:</b>	intensive cleaning		very gentle		gentle		gentle		powerful	
Precious metals & alloys	+	(yes)	+	yes	+	no	+	yes	+	no
Coloured metals & alloys	+	(yes)	+	yes	+	no	+	yes	+	no
Jewellery with gemstones	+	(yes)	+	(yes)	+	no	+	(yes)	+	no
Fashionlike jewellery	(+)	(yes)	+	(yes)	+	no	+	(yes)	-	
Suitability for soft gemstones*)	-		+	(yes)	(+)		+	(yes)	-	
Pearls*)	-		+	(yes)	-		(+)	(yes)	-	
Corals*)	-		+	(yes)	-		-		-	
<b>Combined cleaning&amp;brightening</b>	powerful & quick		no		gentle		gentle & slow		extremely quick	
Gold & gold alloys	++		-		+		+++	yes	++	no
Platinum & platinum alloys	-		-		-		+	yes	++	no
Silver & silver alloys	+		-		+		+	yes	+++	no
Coloured metals (copper, brass)	++		-		+		+	yes	+	no
<b>Removes:</b>										
sweat/fat/dust	+	no	+++	yes	++	no	++	yes	+	(yes)
Polishing agents <sup>**)</sup>	++	yes	+++	yes	-		++	yes	+	yes
Waxes <sup>**) &amp; resins</sup>	+	yes	++	yes	-		++	yes	-	
Machining emulsions	+	no	+	yes	+	no	+	yes	+	(yes)
<b>Applicable with:</b>										
Ultrasonic bathes <sup>*)</sup>	+		+		+		+		+	
Dipping bathes	(+)		+		-		+		+	
Whipe cleaning	-		-		-		-		+	
<b>Recommended concentration</b>	5%		5%		5%		Ultrasonic bath: 5% Dipping bath: 20%		ready for use Ultrasonics: 1:1 diluted	
<b>Special properties of agents</b>										
ammonia containing	yes		no		little		no		no	
pH (concentrate): alkalinity/acidity	10.9: mildly alkaline		9.3: mildly alkaline		10.2: mildly alkaline		12: alkaline		1 - 2: acid	
pH (working sol.'n): alkalinity/acidity	~8.5: nearly neutral		~8: neutral		~9: nearly neutral		10.5: mildly alkaline		1 - 2: acid	
<b>Restrictions:</b>	( ): The applicability of the cleaner/ higher temperature in these cases has to be checked in advance. *) Ultrasonics with frequencies lower than 50 kHz should not be applied to soft gemstones, pearls, corals. **) For the removal of waxes and polishing agents the use of elevated temperatures higher than the weakening temperature is recommended.									