

elma-clean - cleaners for water-based industrial cleaning of parts

COMPATIBILITY with the MATERIALS of SURFACES and APPLICATION

March 2007

SURFACE	contamination kind of assembly	light metals		aluminum		zinc		non ferrous metals		precious metals		stainless steels		cast iron		hard metal		glass & quartz		IR materials		ceramics		rubber		plastics		textiles		product tech data sheet	general attributes MSDS	application	chemical properties	
		Al	Mg	Al	Zn	Br	Fe	Ti	Ni	Cr	Co	Mo	W	Cu	Al	Fe	St	Co	Cr	Al	Si	Qu	Al	Si	Ca	Al	Si	Ca	Al					Si
CLEANING	grease, oil, lime soap, markings, labels, fingerprints, dust	o	o	o	o	+	+	+	+	+	++	++	+	+	+	+	++	+	++	+	++	+	++	+	+	+	+	+	+	+	EC 270 d&s liquid	alkaline foaminhibited KOH-based suitable for splashing	0,5 - 1 Vol% 50 - 70°C	silicatefree with phosphate pH (0,5-1Vol%): 9 - 10
	metals, glass, plastics																																	
CLEANING	flux, polishing residues, oxide deposits on gold & tin alloys	-	-	-	o	+	+	++	+	++	+	+	+	+	+	+	+	+	+	o	+	+	+	+	-	+	+	+	+	EC 228 liquid	mildly alkaline emulsifying	5 - 10 vol% 30 - 80 °C 5 min.	silicate- & phosphatefree pH (5-10 vol%): 10 - 11	
	PCB, electric switch																																	
CLEANING	dust, fingerprints, oil, light grease, polishing residues	o	o	o	o	-	o	+	++	+	++	++	+	+	-	+	-	+	+	+	+	+	o	o	+	+	+	+	+	EC 224 liquid	mildly alkaline	2 - 5 vol% 50 - 80 °C 4 min.	silicatefree with phosphate pH (2-5 vol%): 10 - 11	
	metals & plastics																																	
CLEANING	dust, fingerprints, light grease & oil	o	o	o	+	o	+	o	++	+	++	++	+	+	-	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	EC 100 powder	mildly alkaline emulsifying	2 - 5 mass% 50 - 80 °C 5 min.	silicatefree, with phosphate & borate pH (2-5 mass%): 9,5 - 10
	metals & plastics																																	
CLEANING	dust, fingerprints, light grease & oil, flux	+	o	+	+	+	+	+	+	+	+	+	+	+	-	++	+	++	+	++	+	++	+	+	+	+	+	+	+	+	EC 225sonic liquid	mildly alkaline emulsifying	2 - 10 vol% 50 - 80 °C 5 min.	silicate- & phosphatefree pH (2-10 vol%): 9 - 10
	PCB, plastic, optical & electronic assemblies																																	
CLEANING	dust, fingerprints, light grease & oil, flux	+	o	+	+	+	+	+	+	+	+	+	+	+	-	++	+	++	+	++	+	++	+	+	+	+	+	+	+	+	EC 225spray liquid	mildly alkaline emulsifying suitable for splashing	1 - 3 vol% 50 - 70 °C 3 min.	silicate- & phosphatefree pH (1-3 vol%): 9 - 9,5
	PCB, plastic, optical & electronic assemblies																																	
CLEANING	dust, fingerprints, light grease & oil incl. silicon oil	+	o	+	o	+	+	+	++	+	++	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	EC 225C liquid	mildly alkaline	2 - 5 vol% 50 - 80 °C 4 min.	silicatefree with phosphate pH (2-5 vol%): 9 - 9,5
	metals & plastics																																	
CLEANING	grease, oil, grinding & polishing residues	+	o	+	+	++	++	+	+	+	+	++	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	EC 210 liquid	neutral emulsifying	2 - 5 vol% 50 - 70 °C 5 min.	silicate- & phosphatefree, pH (2-5 vol%): 8 - 8,5 with corrosion inhibitor
	grease, oil, grinding & polishing residues, lacquered surfaces																																	
CLEANING	dust, fingerprints, light grease & oil	+	o	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	EC 115 liquid	neutral emulsifying suitable also as high pressure cleaner	1 - 2 vol% 50 - 70 °C 2 min.	silicate- & phosphatefree pH (1-2 vol%): 7 - 8
	metals & plastics																																	
CLEANING	lime soaps, aqueous coolants, grease, oil, dust, fingerprints	+	+	++	+	+	+	o	++	++	+	+	+	+	+	++	++	+	+	+	+	+	+	+	+	+	+	+	+	+	EC 260 d&s liquid	neutral demulsifying suitable for splashing	1 - 2 vol% 30 - 75 °C	silicatefree with phosphate pH (1-2vol%): 7 - 8
	metals, glass, plastics																																	
CLEANING	dust, fingerprints, textiles turned yellow	+	o	+	+	+	+	+	+	+	+	+	+	+	-	+	o	+	++	++	++	++	+	+	+	+	+	+	+	+	EC 160 liquid	neutral emulsifying	2 - 3 vol% 30 - 90 °C 10 min.	silicatefree with phosphate pH (2-3 vol%): 7 - 8
	plastics & textiles																																	
CLEANING	lime, rust, oxide, dust, fingerprints, mineral grease & oil	+	-	+	-	+	+	o	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	EC 115C liquid	acidic emulsifying	1 - 3 vol% 30 - 80 °C 2 min.	silicate- & phosphatefree pH (1-3 vol%): 2,5 - 3
	metal & glass & plastics																																	
CLEANING	anticorrosion additive for rinsing & cleaning baths	o	o	o	o	o	o	+	+	+	++	++	++	+	o	-	o	o	o	o	o	o	o	o	o	o	o	o	o	o	elma-KS liquid	neutral water-soluble oil- & siliconfree	0,05 - 0,1 vol% 30 - 90 °C >= 1 min	silicate- & phosphatefree pH (0,1vol%): 7,5 - 8
	residuefree evaporating wetting agent																																	
CLEANING	foam-inhibiting additive to EC-products	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	elma-non-foam 1 liquid	neutral additive enabling spray cleaning	w. ratio 1:10 to cleaner >= 50 °C	salt-, silicone- & fluorinefree pH : ~ 7

1) - recommended for parts sensitive to rusting: subsequent alkaline step or step with anti corrosion additive elma-KS. 2): suitable for spray cleaning using additive nonfoam 1.

++ well suitable

+ suitable / compatible with material.

o check for compatibility

- not compatible with material