

# CLEANING AND DEGREASING SELECTION CHART

TYPE OF CLEANERS		ALKALINE / NEUTRAL								
Contaminant		<i>Organic:</i> grease, oil, corrosion protection, lubricants, smoke, finger prints, dust, carbon, graphite, soot, etc.								
Cleaning process		Spray and wipe	Ultrasonic bath	Floor washing machine and general maintenance	Pressure washer	Hot parts washer	Automated parts washer	Dip tank	Manual parts washer	
Parent material	Steel	UNO S F UNO S V AF-Clean FT 200	CB 100	UNO S PF	UNO S PF	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	Bio-Circle L and Bio-Circle Ultra	
	Stainless steel	UNO S F UNO S V AF-Clean FT 200 E-Nox Shine	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100		
	Aluminum	AF-Clean FT 200 E-Nox Shine	CB 100 ALU	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	CB 100 ALU	Bio-Circle Aero
	Copper / Brass	AF-Clean FT 200	CB 100 ALU	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	ALUSTAR 100 ALUSTAR 200 ALUSTAR 300	CB 100 ALU	
	Glass	UNO S F UNO S V AF-Clean FT 200	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—	
	Plastic	UNO S F UNO S V AF-Clean FT 200	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—	

**Note:** It is very important to know the next step after cleaning. For instance, if painting is required after the cleaning operation, a surface preparation cleaner may be recommended.

**Inorganic contaminant:** Mineral-based compounds such as rust, limescale, etc.

**Organic contaminants:** Carbon-based compounds such as oil, grease, etc.

**Other contaminants:** Can be a combination of organic and inorganic contaminants

Neutralization of acidic cleaners: Proper neutralization with an alkaline cleaner is always required to deactivate the acid and prevent damages to the parent material

**Steps to proper neutralization:**

1. Wipe off the excess of acid
2. Apply an alkaline cleaner
3. Wipe off the surface with a clean rag (rinse and dry when necessary)



ACIDIC					NATURAL SOLVENT		
<i>Inorganic: rust, corrosion, limescale, calamine, heat tint, etc.</i>					<i>Other: paint, glue, adhesive, ink, wax, tar, etc.</i>		
Spray and wipe	Ultrasonic bath	Hot parts washer	Automated parts washer	Dip tank	Spray and wipe	Ultrasonic bath	Dip tank
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Bio-Rust and Power Cleaner 100	GS 200 SC 400	CB 100	GS 200 CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	GS 200 SC 400	CB 100	GS 200 CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	GS 200 SC 400	CB 100 ALU	GS 200 CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	GS 200 SC 400	CB 100 ALU	GS 200 CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	GS 200 SC 400	CB 100	GS 200 CB 100
—	—	—	—	—	—	CB 100	CB 100



# CLEANER CHARACTERISTICS

	Fast evaporating	Flammability	pH level	Residue	Short term protection	Long term protection	Rinsable	Dilutable	Biodegradable	VOC content <sup>1</sup>
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	No	None	Neutral	Yes	Yes	No	Yes	No	Yes	0%
AF CLEAN	Yes (after wiping)	None	Slightly alkaline	No	No	No	Yes	No	Yes	12%
CB 100	No	None	Slightly alkaline	Yes	Yes	No	Yes	Yes (up to 5:1)	Yes	0%
CB 100 ALU	No	None	Slightly alkaline	Yes	Yes	No	Yes	Yes (up to 5:1)	Yes	1%
UNO S	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes	0%
UNO S F	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes	0%
UNO S PF	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes	0%
UNO SV	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes	0%
STAR 200	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes	0%
ALUSTAR 100	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:5)	Yes	0%
ALUSTAR 200	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes	0%
ALUSTAR 300	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes	0%
E-NOX CLEAN	No	None	Acidic	Yes	No	No	Yes	Yes (up to 10:1)	Yes	0%
E-NOX SHINE	No	None	Alkaline	Yes	Yes	No	Yes	No	Yes	0%
BIO-RUST	No	None	Neutral	Yes	Yes	No	Yes	No	Yes	0%
POWER CLEANER 100	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes	0%
GS 200	No	Low (102°C/215°F)	---	No	No	No	No	No	Yes	0%
SC 400	No	Low (45°C/113°F)	---	No	No	No	No	No	Yes	100%
OMNI	No	Low (130°C/266°F)	---	Yes	Yes	Yes	No	No	No	4%
FT 200	Yes (after wiping)	Low (40°C/104°F)	Slightly alkaline	No	No	No	Yes	No	Yes	7%
AF-PL	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No	100%
SLAP SHOT	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No	100%

Legend: ● Water-based ● Natural solvent-based ● Oil-based ● Solvent-based

