

# Master STAGES™ CLEAN 2020

*Washing Compound for Ultrasonic and Immersion Washers*

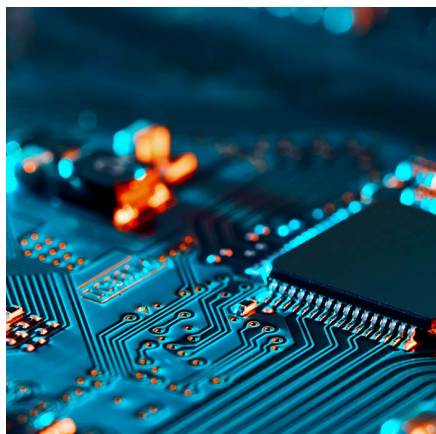


Master STAGES CLEAN 2020 is a concentrated, very high performance cleaner made for washing all metals including brass, copper alloy, and aluminium in ultrasonic or immersion washers. Its cleaning ability is extraordinary, which often leads to shorter cleaning cycles or elimination of cleaning steps. CLEAN 2020's oil rejecting properties mean longer bath life and economical operation.

Ingredients acc. to EU Detergent Regulation (RE (EC) No 648/2004)

anionic surfactants	15 - 15%
non-ionic surfactants	< 5%
cationic surfactants	< 5%

## **Electronics Manufacturer Cuts Cleaner Consumption by 50% with Master STAGES™ CLEAN 2020**



The customer in Malaysia is recognised as an industry-leading manufacturer of high-performing audio equipment, with superior acoustic performance compared to competitors. In addition, they have made ground-breaking advancements in voice recognition and control technology to improve ease of use and integration with daily activities.

### Choose CLEAN 2020:

- Excellent cleaning in immersion and ultrasonic tanks
- Long life because oils split rapidly to the surface of your cleaner tank where they can be skimmed off
- An excellent choice where one product is used for multiple purposes; such as washing mixed batches of ferrous, aluminium, and copper alloy parts
- Will provide extended in-process tarnish resistance on copper and copper alloy parts
- Safe on aluminium, aluminium alloy, and magnesium
- Will remove coolant residues as well as straight oils

### CLEAN 2020 especially for:

**Applications** — immersion tanks, parts washing and ultrasonic tanks

**Soils** — chlorinated oils, coolant residues, oils and sulphurised oils

**Metals** — aluminium, aluminium alloys, brass, cast iron, copper, copper alloys, ferrous metals, magnesium, yellow alloys and zinc

**Industries** — aerospace, automotive, energy and medical

CLEAN 2020 is free of — 2-butoxyethanol (Butyl), borates, nitrites and phenols

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## Application Guidelines

- In ultrasonic washers, CLEAN 2020 should be kept under 71°C.
- In agitated immersion washers, CLEAN 2020 can operate from ambient to 71°C.
- Concentrations range from 3% for washing off coolant up to 5%-10% for washing off straight oils.
- Straight oils require skimming as they will split rapidly to the surface. CLEAN 2020 has no cloud-point so foam will remain constant as temperature increases. CLEAN 2020 has been used with great results removing screw machine oils in low-pressure spray washers, such as auger/drum-style washers, where the oil helps break foam.
- CLEAN 2020 does not provide corrosion inhibition for ferrous parts. If such protection is needed, follow the washing process with Master STAGES™ NOCOR® S2, or Master STAGES™ CLEAN 2029 (not compatible with Master STAGES™ CLEAN 2115).
- For additional product application information, including performance optimisation, please contact your Master Fluid Solutions' Authorised Distributor at <https://www.masterfluids.com/eu/en/distributors/index.php>, your District Sales Manager, or call our Tech Line at +49 211 41 72 8 -900.

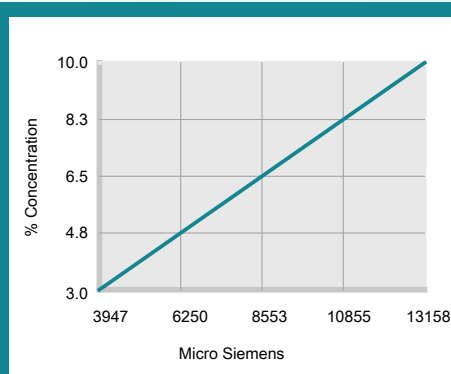
## Physical Properties Typical Data

Colour (Concentrate)	Light yellow
Colour (Working Solution)	Pale yellow
Odour (Concentrate)	Mild
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D92-90)	> 100°C
pH (Concentrate as Range)	13.0 - 13.5
pH (Typical Operating as Range)	11.5 - 12.5
Coolant Refractometer Factor	5.5
Cleaner Conductivity Factor	0.00076
Titration Factor (CL-1 Titration Kit)	0.36
Number of Cleaner Vials (CL-1 Titration Kit)	2.0
Cleaner Indicator A or B (CL-1 Titration Kit)	A

## Recommended Metalworking Concentrations

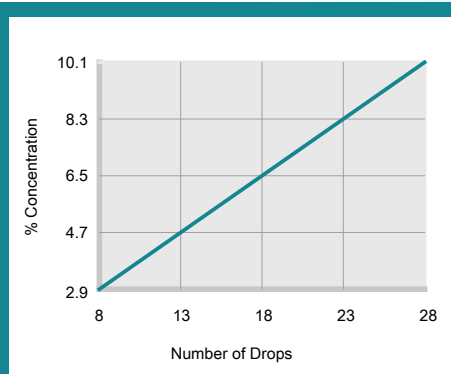
Design Concentration Range	3.0% - 10.0%
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## Concentration by Conductivity



% Concentration = Conductivity in Micro Siemens x Factor  
Conductivity Factor = 0.00076

## Concentration by Titration



% Concentration = No. of Drops x Titration Factor  
Titration Factor = 0.36

## Health and Safety

Request SDS



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## Mixing Instructions

- Recommended usage concentration in water: 3.0% - 10.0%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.

## Ordering Information

20-litre pail

204-litre drum

1000-litre IBC

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## Additional Information

- Industrial use only
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
- Master STAGES™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
- The information herein is given in good faith and believed current as of the date of publication and should apply to the current formula version. Because conditions of use are beyond our control, no guarantee, representation or warranty expressed or implied is made. Consult Master Fluid Solutions for further information. For the most recent version of this document, please go to this URL:

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