

# UniClean® A101 | B201

## Next generation metal cleaning



General Metal Finishing

Cleaning Stripping Pretreatment

atotech.com

## Modern cleaners set a new benchmark in industrial cleaning

### Lead the charge towards sustainability and efficiency

Introducing UniClean A101 and UniClean B201, our first Modern cleaner toolbox products that revolutionizes industrial cleaning by implementing a whole new level of sustainability and efficiency. Our Modern cleaner system comprises an additive package UniClean A101 and a builder package UniClean B201, both steering clear of undesirable chemicals, such as phosphates, hard chelators, and amines. It operates at ultralow temperatures like 35°C, remarkably reducing energy consumption and CO<sub>2</sub> emissions.

By optimizing both product formulations with compatible additives and raw materials, utilizing specific newer substances, our medium alkaline cleaner products can operate as emulsifying immersion soak cleaners, also exhibiting ultrasonic compatibility.

Possessing advanced oil degradation, long life and conductivity control compatibilities at ultra-low temperatures, these sustainable cleaners deliver outstanding cleaning performance and extend bath lifetime. The cleaner combination is extremely versatile and adaptable, catering to a wide range of customer needs and metal substrates such as steel, stainless steel, copper, brass, and zinc. With the ability to combine UniClean A101 and UniClean B201 in different ratios and concentrations, these highly concentrated cleaning products offer both flexibility and cost-effectiveness.

### Features and benefits

- Medium alkaline cleaner products with emulsifying immersion soak and ultrasonic compatibility
- Safer, eco-friendly processes, free of undesirable chemicals
- Operate at ultra-low temperatures for reduced energy consumption
- Multi-functional cleaners suitable for diverse cleaning applications
- Superior oil degradation capabilities extend bath life
- Minimized downtime and maintenance costs
- Suitable for various metal substrates like steel, zinc, brass, and copper



**Image 1:**  
Successfully cleaned test part  
**Image 2:**  
Perfect immersion test result

# Leading the charge towards sustainability and efficiency



**Image 1:**  
UniClean A101/B201 bath

**Image 2:**  
UniClean A101 (left)  
UniClean B201 (right)

## Ultralow temperature cleaners that ensure consistent quality

All recommended UniClean A101 and UniClean B201 combinations operate at ultra-low temperatures while maintaining equivalent cleaning efficiency, ensuring thorough removal of contaminants from metal surfaces. Remarkably, they boast identical cleaning times compared to traditional cleaners. Highlighting their reliability and consistency in delivering high-quality results, our ultra-low temperature cleaners demonstrate comparable performance in terms of reject rates.

## Maximizing efficiency by extending cleaning bath lifespan

UniClean A101 and UniClean B201 promote the natural degradation of organic soils removed and emulsified during the cleaning process. By exhibiting exceptional oil capacity, the cleaner package significantly extends the lifetime of the bath. This longevity translates into minimized downtime and reduced maintenance costs, facilitating uninterrupted productivity and efficiency in industrial operations. Utilizing UniPrep ISOtect, a specialized equipment which is designed to enhance the efficiency of oil degradation can play a significant role in further extending bath longevity by mitigating contamination buildup.

## Positive environmental impact and cost savings (customer-based study)

	Conventional cleaner at 65 °C	UniClean A101/ B201 at 35 °C	Difference	Savings
Total power required	2,396 kWh/week	610 kWh/week	1,785 kWh/week	75% energy needed
Cost of heating	527 €/week	134 €/week	393 €/week	75% less cost of heating
Related CO <sub>2</sub> emission	629 kg CO <sub>2</sub> /week	160 kg CO <sub>2</sub> /week	469 kg CO <sub>2</sub> /week	75% less CO <sub>2</sub> emission
Total power/year			85,698 kWh	
Energy cost savings/year			18,853 €	@0.22 €/kWh
Reduced CO <sub>2</sub> emissions/year			22,492 kg	

