



## Techniclean D 890

Multi-metal ultrasonic dip process cleaner

### Description

Castrol Techniclean™ D 890 is an aqueous, mildly alkaline industrial cleaner containing corrosion inhibitors and a highly effective biodegradable surfactant package. The product is designed to be user-friendly and environmentally responsible. It is free of inorganic salts.

### Application

Techniclean D 890 is a low pH process cleaner for precision cleaning of all metals to the most demanding specifications in all types of dip and ultrasonic applications.

Techniclean D 890 is designed to remove a wide range of soils encountered in manufacturing, such as soluble oils, light-medium duty neat cutting or forming oils, lubrication oils, soft film corrosion preventives, swarf and general dirt.

### Conditions of Use

	Dip	Ultrasonic
Concentration Range	3 - 6%	2 - 5%
Temperature Range	up to 80°C / 176°F	50-70°C / 122- 158°F

Optimum conditions of use are depending on the detailed application requirements and the amount and nature of the soil being removed.

### Advantages

- Leaves a temporary corrosion preventive film on the metal surface – minimises scrap rate which improves productivity
- Highly effective biodegradable surfactant package – improves parts cleanliness and reduces re-work
- Free of inorganic salts, no rinsing required – enables process rationalisation
- Moderate pH-level – improves environment for the workforce
- Multi-metal compatible and suitable in hard and soft water – enables possible product consolidation

## Typical Characteristics

Description	Test Method	Unit	Value
Appearance	Visual	-	Clear-slightly hazy, yellow liquid
Density @ 15°C / 59°F	ASTM D1298	g/ml	1.06
pH (5% in DI-water)	ASTM E70/97	-	9.1
Cast Iron Corrosion Protection (5% in DI-water)	IP 287	-	Pass

## Concentration Control

1. Pipette 10 ml in an Erlenmeyer flask
2. Add 1 - 2 drops of indicator solution nitrazine yellow
3. Titrate with hydrochloric acid (c = 0,1 ml/l) until colour changes from blue to yellow
4. Concentration = required ml hydrochloric acid \* **factor 1,6**

## Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

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