

# ADRANA D 208 FF

Water soluble metalworking fluid

## DESCRIPTION

ADRANA D 208 FF is a classic, semi-synthetic, metalworking fluid forming a stable microemulsion which is free from formaldehyde-release biocides.

The product contains high quality mineral oil and a sophisticated surfactant package.

ADRANA D 208 FF is a formaldehyde releaser biocide -free alternative to Adrana D 208.

## APPLICATIONS

ADRANA D 208 FF is recommended for general machining and grinding operations on cast iron and low to medium alloyed steels. It is suitable for use in both single sump machines and central systems.

The versatile microemulsion can be used over a wide water hardness range and is designed with excellent detergency and high wetting properties for a clean working environment.

## RECOMMENDATION FOR USE

General machining 4-6 %  
Medium duty machining 6-10%  
Ferrous grinding 3-5 %

## TYPICAL PHYSICAL PROPERTIES

Concentrate Appearance	Amber oil	
Specific Gravity @ 20°C	1.02	DIN 51757
Refractometer Factor	1.6	HIM 53
Emulsion Appearance	Translucent	
pH in Use	8.9 - 9.5	DIN 51369

## BENEFITS

- **Good separation of tramp oil** : for ease of removal and longer emulsion life
- **Excellent detergency** : cleaner parts, machine tools and working environment
- **Very stable emulsion** : long fluid life between new fills, fewer additive treatments and lower usage costs
- **Good corrosion protection** : fewer rejects and lower maintenance cost
- **Very low foaming** : designed for high pressures and flow rates in both soft and hard water
- **Good EHS profile** : free of Chlorine, phenol, secondary amine (TRGS 611 compliant) and formaldehyde

## RELATED PRODUCT

Water soluble coolants are complemented by our full range of high quality, speciality production fluids including energy saving wash chemicals , low misting neat cutting oils, non-VOC rust preventives and long life heat treatment fluids. Fluidcare services complete our value added portfolio with a range of expert services and equipment to help reduce costs and improve productivity. For more information, please contact your local Houghton representative.

## STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

## HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulations (EC) No 1907/2006 Annex II and (EC) No 1272/2008.

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Houghton PLC  
Beacon Road, Trafford Park, Manchester  
M17 1AF, United Kingdom

Tel: +44 (0) 161 874 5000  
Fax: +44 (0) 161 874 5001  
uk.enquiries@houghtonintl.com  
<http://www.houghtonintl.com>

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