



Shell Adrana D 208

Water extendible metalworking fluid

Shell Adrana D 208 is a high quality, general-purpose metalworking fluid for easy to medium duty applications on ferrous metals.

Applications

Shell Adrana D 208 is recommended for use in easy to medium duty operations on cast iron and low to medium alloyed ferrous metals. It is designed with excellent detergency and high wetting properties in order to be used on CNC machine tools. Shell Adrana D 208 is suitable for all removal and grinding operations, and is usable over a broad water hardness range.

Performance Features and Benefits

Shell Adrana D 208 is an odorless micro-emulsion with:

- **High detergency** for clean parts and machine tools
- **High stability** extending the fluid life
- **Good corrosion protection**
- **Extremely good foaming behaviour** for use in soft water and high pump pressure/flow rates
- **Good cooling properties** that provide sufficient tool life and part geometry
- **Operator friendly**

Recommended Concentrations

The concentration varies depending on the type of machining operation, the water hardness, and the required corrosion protection. The typical

recommended concentrations for use in medium water hardness are:

- General machining : 4 – 6 %
- Severe cutting operations : 5 – 8 %
- Grinding : 3 – 5 %

Storage

The product should be stored inside (41-104°F) for no more than one year. Freezing should be avoided.

Health & Safety

Please note that mixed coolants work over long periods of time, therefore chemical contamination (hydraulic oils, greases, metal solutions, paints, rust inhibitors, etc.) or bacterial contamination (from dirty hands, work pieces, industrial grade water, sundry waste, etc.) can often occur. Contamination with the above materials should be minimized/eliminated. Regular monitoring of the in-use product is recommended to maintain optimum product condition and for determination of its useful working life.

Protect the environment

Waste must be disposed of in accordance with EC Directive 91/156, 91/689 and 94/62 or in line with local legislation.

Typical Physical Characteristics

	Unit	Method	Shell Adrana D 208	
Product Codes			Drum	5072695
			Pail	5073351
Mineral Oil content	%		22	
Density @ 20°C	g/mL	ASTM D 1298	1.02	
pH of the emulsion at 3%		DIN 51369	9.3	
Min Anti-Cor. Protection Limit (0-0)	%	DIN 51360/2	4.0	
Refractometer Factor			1.55	
Acid Split Factor			3.1	

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur.