

# Rationalisation Without Compromise



In the metal working industry, there is a growing awareness of safety, health and environmental issues, which often seem to conflict with the drive for greater productivity but which cannot be ignored.

As a result, there is a clear need to reduce the use of some additives, to minimise the possible risk to individuals during the use of metalworking fluids and to reduce the potential impact on the environment following metal working fluids disposal without compromising performance.

Shell now offers you a completely integrated proposition consisting of a new range of cost-effective products, best practice maintenance services and specialist equipment for recycling and disposal of fluids, demonstrating commitment to the 'Rationalisation without Compromise' approach to improving the overall effectiveness of your manufacturing process.

## The Benefits

- Fewer products required due to Shell's advanced formulation technology reducing stock levels and the operational complexity of machining applications
- Best practice fluid maintenance services and use of the specialist recycling and disposal equipment lengthening fluid life, minimising machine down-time, maintaining cutting performance and reducing disposal costs.
- Shell Lubrication management software provides a platform for continuous monitoring and further optimisation of lubrication and fluid care activities.



### Shell Adrana Fluid E 4550

Chlorine Free Metalworking

ITEM DESCRIPTION	MOODYPART
SHELL ADRANA FLUID E 4550	
20L SIZE	7001272
209L SIZE	7001273

#### Performance Features

- A pleasant working environment, user acceptability and long sump life have been recognised as priorities in the development of Adrana E 4550. Its unique biostable system and additive formulation give exceptional performance, sump life and machine tool protection under the most arduous machining conditions.
- Chlorine Free
- Remains free from rancidity
- Does not stain aluminium
- Excellent emulsion stability
- Ready mixes
- Offers E.P. performance



### Shell Sitala D 5401

High Performance Biostable Metalworking Fluid for the Machining of Aluminium Alloys

ITEM DESCRIPTION	MOODYPART
SHELL METALINA FLUID D 203	
20L SIZE	7001278
209L SIZE	7001279

ITEM DESCRIPTION	MOODYPART
SHELL SITALA D 5401	
20L SIZE	7001274
209L SIZE	7001275

#### Performance Features

- Lubricity  
Combination of boundary lubricity additives to produce excellent surface finishes on low and high silicon content aluminiums.
- Foam Propensity  
Low foaming in most water hardnesses.
- Operator Acceptability  
Low odour formulation for a pleasant working environment.
- Biostable Formulation  
Incorporates an effective anti-microbial system to give long sump and coolant system life.



### Shell Metalina D 203

Full Synthetic Biostable Metalworking Fluid Specifically Developed for Grinding Operations

#### Applications

- Grinding  
A wide variety of grinding applications on the majority of ferrous and non-ferrous materials.

#### Performance Features

- Nitrate Free  
For operators' health and safety.
- Phenol and Chlorine Free  
Environmentally safe. Low disposal costs.
- Corrosion Inhibition  
High level of corrosion inhibition to machine tool and components.
- Bio-stable  
Incorporates proven bio-resistant components to provide extended solution life.
- Low Foaming  
Prevents high levels of foam associated with high-speed grinding operations.
- Low Residue Formation  
Leaves wheel free-cutting and surfaces clean.
- Fines Separation  
Excellent separation of metallic fines. Aids settlement and filtration.