



SHELL METALINA™ COOLANT 840

Heavy duty synthetic fluid

Product Description

Shell Metalina™ Coolant 840 is a heavy duty, low foaming synthetic coolant specifically formulated for ferrous machining and grinding applications where excellent hard water tolerance and corrosion protection are desirable characteristics. Extreme pressure lubricity components enable its use in applications of greater severity than for many synthetic fluids. **Shell Metalina™ Coolant 840** forms transparent solutions in water with excellent cooling and chip settling action and will provide short term rust protection on machine tools and equipment when used at recommended concentrations.

Shell Metalina™ Coolant 840 does not readily provide nutrient sources for microbial growth with the result of extended sump life. Tankside additives are virtually eliminated and fluid remains fresh and clean. **Shell Metalina™ Coolant 840** rejects tramp oils for easy removal by skimming or coalescing. It is ideal for central coolant systems and for plant wide recycling programs where minimal fluid use and liquid waste reduction are the objectives.

Applications

- turning, milling and drilling of moderate to low machinability ferrous metals at a concentration of 5% to 8%
- grinding is normally done with a fluid concentration of 4% to 6% for low feed rate operations
- high feed rate grinding processes such as plunge grinding require a concentration of 5% to 8%

Maximum biological resistance is attained at a concentration of 5% and above.

Note: Synthetic fluids are not appropriate for certain older machine tools. Consult your local representative before using this fluid in older machinery

Features and Benefits

- excellent cooling and lubricating properties in moderate to high severity operations at high speeds
- oil free synthetic chemistry helps maximize tramp oil rejection, eliminating oil mist when skimming equipment is used
- free of DEA, chlorinated paraffins, nitrites and phenols
- bacteria and fungus resistance helps extend fluid life

Typical Properties of Shell Metalina™ Coolant 840

	Test Method	
Product Code 55 gallon drum 5 gallon pail		5064198 5064638
Appearance Concentrate Appearance, 5% Solution	Visual	Amber liquid, slight haze Transparent
pH, 5% Solution		9.3
Residual Film		Non-tacky, oil-free, readily resolvable
Stability, 5% Solution (350 ppm hard water)		No Separation

Concentration by Refractometer

Concentrations of **Shell Metalina™ Coolant 840** can easily be checked by use of a hand held refractometer and referring to the chart below.

Reading	%Concentration	Water:Prod. Ratio
0.4	1	99:1
0.8	2	49:1
1.2	3	32:1
1.6	4	24:1
2.0	5	19:1
2.4	6	16:1
2.8	7	13:1
3.2	8	12:1
3.6	9	10:1
4.0	10	9:1

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet <http://www.shell-lubricants.com/msds/>. For more information and availability, call **1+800-782-7852** or visit the World Wide Web: If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.