



SHELL FENELLA[®] OIL DS 2240

Synthetic metalforming lubricant

Product Description

Shell Fenella Oil DS 2240 is a synthetic metalforming lubricant which helps reduce wrinkling and fracture in sensitive sheet metal draws. The film imparts holdback to reduce excessive metal flow. Special boundary additives lubricate hold down tooling under high blank holding pressures for a continuous, but controlled flow of metal. **Shell Fenella Oil DS 2240** works as a replacement for straight chlorinated oils and pastes.

Applications

- sheet metal drawing
- drawing and tube bending operations

Shell Fenella Oil DS 2240 is designed to be used on fairly large parts, e.g. barbeque grills, oil pans, exhaust manifolds. If application involves thin gauge, small parts, a product leaving a more fluid film should be considered.

Shell Fenella Oil DS 2240 can be used neat to 5:1 for sensitive draws and tube bending. It can be diluted with up to 10 parts water for general duty applications

Features and Benefits

- replaces chlorinated products where use of chlorine containing lubricants may be of concern
- excellent lubricity which helps to reduce wrinkling in sensitive draws helps reduce rework
- is removed easily by mild alkaline water based cleaners
- good weld through properties

Typical Properties of Shell Fenella Oil DS 2240

	Test Method	
Product Code (drums)		5064218
Appearance	Visual	Clear amber liquid
Film Characteristics		Tacky, stiff
PH @ 10%		9.5
Density, lbs/gal		8.88

Concentration Control

Concentration can easily be determined by using a refractometer and referring to the chart below. Readings must be corrected for reading of make up water.

Reading	% Conc.	Water:Prod. Ratio
1.0	1	99:1
1.7	2	49:1
2.5	3	32:1
3.2	4	24:1
4.0	5	19:1
4.8	6	16:1
5.5	7	13:1
6.3	8	12:1
7.0	9	10:1
7.8	10	9:1
8.6	11	8:1
9.3	12	7:1
10.8	14	6:1
12.4	16	5:1
15.4	20	4:1
19.2	25	3:1
25.3	33	2:1

Handling and Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.equivashellmsds.com>. 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/>.