

## ENVIROLOGIC® CO 100

### Readily Biodegradable\* Stabilized Castor Oil Based Hydroforming Oil

ENVIROLOGIC® Hydroforming Oil is a versatile and powerful castor oil based hydroforming oil designed for use in hydroforming systems. EnviroLogic Hydroforming Oil is suitable for use in equipment which utilizes polyisoprene elastomer components in application. EnviroLogic Hydroforming Oil is stabilized against both hydrolysis and oxidation and is superior in performance to standard #1 castor oil products. EnviroLogic Hydroforming Oil exceeds the requirements of the ASTM D960 specifications for castor oil used in industrial applications.

- Readily biodegradable, biodegrades  $\geq 60\%$  within 28 days\*
- Certified as an Environmentally Acceptable Lubricant (EAL)

| Typical Properties                 |             | ENVIROLOGIC® CO 100 |
|------------------------------------|-------------|---------------------|
| Flash Point, °F, ASTM D92          |             | > 204 (> 400 °F)    |
| Specific Gravity, 60°F, ASTM D4052 |             | 0.96                |
| Degrees API                        |             | 15.9                |
| Viscosity, ASTM D445, cSt.         | @ 40°C cSt  | 225                 |
|                                    | @ 100°C cSt | 18.3                |
| Viscosity Index, ASTM D2270        |             | 200                 |
| Pour Point, ASTM D97, °C           |             | -23                 |

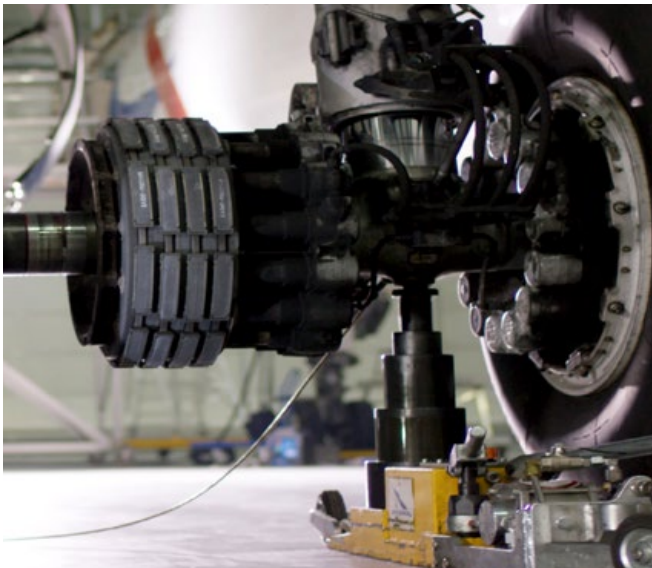
| Performance Properties                           |                          | ENVIROLOGIC® CO 100 |
|--|--------------------------|---------------------|
| Oxidative Stability (ASTM D2272)<br>RPVOT (mins) |                          | 42                  |
| Hydrolytic Stability<br>(ASTM D2619)             | H <sub>2</sub> O acidity | 3.9                 |
|  | % change TAN             | + 15                |
|  | Cu wt. (initial)         | 4.29                |
|  | Cu wt. (final)           | 4.29                |
|  | mg Cu loss               | 0.0                 |
| Polyisoprene Compatibility<br>1-week immersion   | @100°C                   | No Change           |
|  | @150°C                   | No Change           |

\*As per OECD 301B

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| Polyisoprene Elastomer Compatibility | ENVIROLOGIC® CO 100 |
|--------------------------------------|---------------------|
| Time (hrs)                           | 240                 |
| Temperature (°C)                     | 100                 |
| % Volume Change (ASTM D471)          | 5.4                 |
| Durometer Change (ASTM D2240)        | - 6                 |
| Visual                               | No Change           |
| Biodegradability, OECD 301B, %       | > 60                |

Properties listed are typical values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.



**For more information about RSC Bio Solutions,  
visit us at [rscbio.com](http://rscbio.com) or call +1 704.684.6100.**



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