



## Paradene R&O

Rust & Oxidation Inhibited Lubricant

### Description

Castrol Paradene R & O oils are specially formulated with premium quality base oils containing additives that are carefully chosen to insure outstanding long-term performance. Castrol Paradene R & O oils are available in a wide range of viscosities that are tailored to meet industrial requirements, rotary air compressors, non anti-wear hydraulic and circulating systems, as well as non-EP gear oil applications. Castrol Paradene R & O oils are particularly suited to meet today's stringent industrial requirements through a combination of a high viscosity index base oil, foam, rust, and corrosion inhibitors and a special oxidation inhibitors.

### Advantages

Castrol Paradene R & O delivers:

- Excellent demulsibility that permits water and other contaminants to readily separate from the oil in hydraulic or circulating system reservoirs.
- Superior oxidation stability resisting thermal degradation in the presence of entrained air and catalyzing metals while preventing the formation of sludge and varnish deposits during periods of extended high temperature operation.
- Good foam resistance and air release for suppressing foaming without retarding the release of entrained air.
- Outstanding rust and corrosion resistance reducing the catalytic effect of systems metals while protecting systems metals from entrained, condensed moisture.

Castrol Paradene R & O provides systems to operate more efficiently reducing operating costs and increasing lubricant and equipment life. Additionally, Castrol Paradene R & O reduces wear and limits formation of deposits leading to less down time and reduced maintenance costs

### Warranty and Protection Requirements

- Exceeds all manufacturers' warranty requirements for applications requiring a rust and oxidation inhibited mineral oil meeting Cincinnati Machine specifications for industrial applications such as rotary air compressors, non-antiwear hydraulic, circulating systems and non-EP gear applications.

### Industry Specifications and OEM Approvals by Grade

Paradene R&O 32: Cincinnati Machine P-38

Paradene R&O 46: Cincinnati Machine P-55

Paradene R&O 68: Cincinnati Machine P-54

## Typical Physical Characteristics

ISO Grade	Method	Typical Results								
		22	32	46	68	100	150	220	320	460
Viscosity at 40° C, cSt	ASTM D-445	23	34	45	68.2	106	145.2	218	321	485
Viscosity at 100° C, cSt	ASTM D-445	4.46	5.60	6.7	8.8	12	15	19.3	24.8	32.5
Viscosity at 100F, SUS	ASTM D-2161	119.0	160.0	235.0	355	551	755	1132	1670	2520
Viscosity at 210F, SUS	ASTM D-2161	40.6	44	48.0	54.1	66	78	96	120	155
Viscosity Index	ASTM D-2270	105	103	103	103	102	99	99	97	97
		190	190	200	226	220	226	235	270	282
Flash Point, °C (°F)	ASTM D-92	(374)	(374)	(392)	(439)	(428)	(439)	(455)	(518)	(540)
		-28	-28	-26	-26			-10	-10	
Pour Point, °C (°F)	ASTM D-97	(-18)	(-18)	(-15)	(-15)	-15 (+5)	-15 (+5)	(+14)	(+14)	-7 (+20)
Gravity, API	ASTM D-287	33.2	33	32	30.9	30	29	28	27.9	27.2
Specific Gravity @60F, g/ml	ASTM D-1298	0.859	0.8623	0.866	0.871	0.8762	0.8794	0.8871	0.8877	0.8916
Pounds per Gallon	ASTM D-287	7.153	7.180	7.211	7.255	7.296	7.323	7.387	7.392	7.424
Oxidation Life, Hrs. to TAN 2.0	ASTM D-943		7000+	6000+	6000+	6000+				

## Additional Information

### Part Numbers and UPCs

ISO Grade	22	32	46	68	100	150	220	320	460
5 Gal. Pail Part No.	-----	40427	-----	40627	40727	-----	40927	41027	-----
55 Gal. Drum Part No.	40329	40429	40529	40629	40729	40829	40929	41029	41129
260 Gal Tote Part No.	-----	404247	-----	-----	-----	408247	409247	410247	-----
Bulk	-----	40420	40520	40620	40720	40820	40920	-----	41120

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDSs are available upon request through your sales contact office, or via the Internet at [www.castrol.com/us](http://www.castrol.com/us). This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment, return used oil to collection center.

Paradene R&O

08 Jan 2013

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

BP Lubricants USA Inc., 1500 Valley Road, Wayne, NJ 07470

Telephone: 1,800.462.0835

[www.castrol.com/us](http://www.castrol.com/us) Email: [contactus@bp.com](mailto:contactus@bp.com)