



## Radicool Heavy Duty

Antifreeze / coolant concentrate

### Description

Castrol Radicool Heavy Duty is a coolant concentrate engineered to deliver maximum protection in heavy duty diesel engines. This product is suitable for trucks and off highway equipment requiring ASTM D 4985 type performance. This coolant can be used in a wide range of vehicles including cars, trucks and buses, in both gasoline and diesel engines. Castrol Radicool Heavy Duty works over a wide operating temperature range for effective engine cooling in all climates. Castrol Radicool Heavy Duty provides superior wet sleeve liner cavitation protection due to a universal formulation that incorporates nitrites and is low in total dissolved solids and silicates.

### Application

- The phosphate-free formula reduces the risk of scale, and the inclusion of state of the art corrosion inhibitors eliminates the need for expensive de-ionized water.
- Castrol Radicool Heavy Duty should be used at concentrations between 33 % and 50% dilution with purified water . To give optimum corrosion protection and freezing protection to -37 °C it is recommended that a 50% dilution is used. A 3 year service life is possible at this concentration.
- Meets the performance requirements of most major automotive specifications for conventional antifreeze, allowing operators of mixed fleets to stock one antifreeze for all their vehicles, simplifying fleet maintenance procedures.
- For maximum performance Castrol Radicool Heavy Duty should not be mixed with other coolants. It is therefore recommended that cooling systems should be drained and flushed before re-filling with diluted Castrol Radicool Heavy Duty coolant.

### Warranty and Protection Requirements

- Exceeds all manufacturer's warranty requirements for applications requiring a universal heavy duty coolant which meets the specifications noted below:

### Industry Specifications and OEM Approvals

(Product diluted 50:50 by volume with water)

#### ***Heavy Duty***

ASTM D-5345  
ASTM D-6210  
Caterpillar (except CAT EC-1)  
Cummins 14603  
Cummins 90T8-4  
Detroit Diesel 7SE298  
Freightliner 48-22880  
GM 1899M  
John Deere H24A2/H24C2  
Mack Truck  
MTU  
Navistar B-1  
SAE J1941  
TMC RP 329  
Volvo-GM Heavy Truck

#### ***Automotive***

ASTM D-3306  
ASTM D-4340  
ASTM D-4656  
Chrysler MS7170 Sec. A & B 1-4  
CID A-A-52624  
Ford ESE-M9B44-a Sec. 3.1.1 & 3.1.2  
GM 1825M  
John Deere H24A2/H24C2  
SAE J1034  
SAE J1941  
Volvo-GM Heavy Truck

## Typical Characteristics

Name	Method	Units	Radicool Heavy Duty Coolant
Appearance	Visual	-	Clear & Bright
Colour	Visual	-	Pink
pH, 50 Vol%	ASTM D1287	-	10.4
Reserve Alkalinity	ASTM D1121	ml 0.1N HCl	7
Boiling Point of Engine Coolants	ASTM D1120	°C (F)	164 (327)
Specific Gravity @60F	ASTM D1122	g/ml	1.13
Freezing Point, Coolant 50% vol in water	ASTM D1177	°C (F)	-38 (-36)
Boiling Point, Coolant 50% vol in water	ASTM D1120	°C (F)	108 (226)
Effect on Automotive Finish	ASTM D1882		None
Chloride	ASTM D5827	ppm	20
Ash	ASTM D1119	wt%	1
Water	ASTM D1123	wt%	3

\* Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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

Telephone: 1,800.462.0835

www.castrol.com/us Email: contactus@bp.com