



CASTROL HEAVY DUTY ANTIFREEZE with SCA

Castrol Heavy Duty Antifreeze with SCA is designed to provide superior engine protection for heavy-duty cooling systems. For years, heavy-duty operators were limited to using low silicate automotive/heavy duty antifreezes that required the addition of a separate supplemental coolant additive (SCA) at initial fill and top off. While this was effective, it resulted in mixing errors when the SCA was added. To prevent SCA variability caused by mixing errors, and improve convenience, **Castrol Heavy Duty Antifreeze with SCA** was developed. **Castrol Heavy Duty Antifreeze** is a fully-formulated universal formula antifreeze, having the advantages of low total dissolved solids, low silicate, and incorporates nitrite to provide superior wet sleeve liner cavitation protection. Since **Castrol Heavy Duty Antifreeze with SCA** is pre-charged with SCA, there is no need to add additional SCA's at initial fill or when topping off to compensate for SCA dilution.

Additional advantages of **Castrol Heavy Duty Antifreeze with SCA** include its phosphate-free formula that reduces the risk of scale and state of the art corrosion inhibitors, which eliminates the need for expensive de-ionized water. As an added benefit, **Castrol Heavy Duty Antifreeze with SCA** 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.

Typical Analysis

| Properties | ASTM D-3306 Specification | Typical Values |
|-------------------------------|---------------------------|----------------|
| Specific Gravity at 60/60°F | 1.110 - 1.145 | 1.126 |
| Freezing Point, 50 VOL. %, °F | -34 MAX. | -36 |
| Boiling Point, °F | 300 MIN. | 327 |
| Boiling Point, 50 VOL. %, °F | 226 MIN. | 226 |
| Effect on Automotive Finish | None | None |
| PH, 50 VOL. % | 7.5-11.0 | 10.4 |
| Chloride, PPM | 25 MAX. | 20 |
| Reserve Alkalinity | Report | 7 |
| Water (WT. %) | 5 MAX. | 3 |
| ASH (WT.%) | 5 MAX. | 1 |
| Appearance | | Pink |

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(Over)

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.™



Castrol Heavy Duty Antifreeze with SCA meets or exceeds the performance requirements of the following specifications:

Heavy Duty

TMC RP-329
ASTM D-4985
ASTM D-5345 (50% Blend)
ASTM D-6210
Caterpillar
Cummins 90T8-4
Cummins 14603
Detroit Diesel 93K217
Detroit Diesel 7SE298
Freightliner 48-22880
GM 1899M
John Deere H24A1
Mack Truck
MTU
Navistar B-1
Volvo-GM Heavy Truck

Automotive

ASTM D-3306
ASTM D-4340
CID A-A-52624
Chrysler MS 7170 Section A & B 1-4
Ford ESE-M97B44-A Section 3.1.1 & 3.1.2
GM 1825M
John Deere H24C1
SAE J1034