



TECHNICAL INFORMATION

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FULL SYNTHETIC

5W-40 A3/B4 SN Full Synthetic Passenger Car Motor Oil

Meets the following performance specifications:

- API SN/CJ
- ACEA A3/B4-10 (2010)
- MB-Approval 226.5
- BMW Longlife-01
- Porsche A40
- Renault RN0710
- Renault RN0700
- Volkswagen VW50200 (2005)
- Volkswagen VW50500 (2005)

Physical Characteristics

	Minimum	Target	Maximum
COLD CRANK @ -30 °C		6500	6600
FLASH POINT, °C, COC		230	
LBS PER U.S. GAL @ 15.6 °C		7.15	
LBS PER IMP GAL @ 15.6 °C		8.59	
POUR POINT, °C		-39	
SPECIFIC GRAVITY @ 15.6 °C	0.838	0.858	0.878
VISCOSITY @ 100 °C, CST	13.0	14.0	15.0
VISCOSITY @ 40 °C, CST		78	

Chemical Characteristics

	Minimum % Weight	Typical	Maximum % Weight
BASE NUMBER (MGKOH/G)		11	
CALCIUM	0.293	0.326	0.359
NITROGEN		0.13	
PHOSPHORUS	0.081	0.090	0.099
SULFATED ASH		1.26	
SULFUR		0.256	
WATER			0.30
ZINC	0.089	0.099	0.109

Unloading, storage and blending instructions

General handling instructions - ACS recommends, as a minimum, the use of neoprene or nitrile rubber gloves and safety glasses or chemical splash goggles. The Material Safety Data Sheet should be consulted for specific

HANDLING AND SAFETY INFORMATION - Refer to ACS (MSDS) Material Safety Data Sheets for proper handling and safety information. Use the same care and handling as for any petroleum product. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.

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