

**Product Name: CARCOOLANT OEM 774F**

Product number: 5652, 7244, 13950, 13949, 19157, 19158, 6726, 3616, 3613, 3210, 5868, 3207, 3209, 11025, 9070, 5654, 19106, 20851, 13948, 620128, 13951, 52136, 52317, 12678, 8248, 20363, 20364, 8257, 17349, 16353, 16355, 16356, 24606, 24604, 24611, 24608, 14366, 20446, 20447, 16354, 14635, 7687, 25265, 25264, 25574, 139482, 25216

## DESCRIPTION

Carcoolant OEM 774F - mixed with the appropriate amount of water - is used as a cooling and heat transferring fluid in combustion engines. Excessive heat is transferred via the fluid to the radiator where the mixture is cooled by means of airflow. OEM 774F is an ethylene glycol based fluid that provides maintenance-free protection against freezing and boiling but also against corrosion. Extended coolant life, often for the whole life of the engine or vehicle, is obtained through the use of virtually non-depleting corrosion inhibitors.

## TYPICAL SPECIFICATION

	<b>OEM 774F, (Havoline XLC)</b>	<b>ASTM D3306, requirements</b>	<b>Method</b>
Ethylene glycol	93 % wt. glycol	Base	
Inhibitor	5 % wt.		
Water	5 % wt. max	Max 5 % wt.	ASTM D1123
Nitrite, amine, phosphate, borate silicate	Nil		
Colour	available in various colours		
Specific gravity/ 20 °C	1,113 (Typ.)		ASTM D5931
Res. Alkalinity/pH 5,5	6.2 (Typ.)		ASTM D1121
Boiling point	180 °C (Typ.)	> 163 °C	ASTM D1120
pH, 20 °C	8,6 (Typ.)		ASTM D1287
Refractive index, 20 °C	1,430 (Typ.)		ASTM D1218

This table shows values for the uncoloured concentrated OEM 774F. (Typ. = typical values only, no analysis made)

<b>Dilution</b>	<b>50%</b>	<b>40%</b>	<b>33%</b>	<b>Method</b>
pH	8,6	8,4	8,3	ASTM D1287
Foaming at 25 °C Break time	50 ml (Typ.) 5 sec. (Typ.)	-	-	ASTM D1881
Foaming at 88 °C Break time	50 ml (Typ.) 5 sec. (Typ.)	-	50 ml (Typ.) 5 sec. (Typ.)	ASTM 1881
Initial crystallization °C	< -37	< -24	< -18	ASTM D1177
Freezing protection	- 40 °C (Typ.)	-27°C (Typ.)	-20°C (Typ.)	
Specific gravity 20 °C	1,068 (Typ.)	1,056 (Typ.)	1,053 (Typ.)	ASTM D5931
Res. Alkalinity (pH 5,5)	3,0 (Typ.)	2,4 (Typ.)	2,1 (Typ.)	ASTM D1121
Hard water stability	no precipitation	-	-	VW PV 1426
Refractive index, 20 °C	1,385 (Typ.)	-	1,369 (Typ.)	ASTM D1218

This table shows typical values for the dilutions. (Typ. = typical values only, no analysis made)

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