

MOTOREX COOLANT-F Trouble-Shooting Guide

06/01 rv

Problem at hand	Cause	Remedy / Action
Preparations	Note	Prior to being filled, the coolant system has to be completely clean and must have been disinfected with SWISSCARE SC. Keep a refractometer on hand for the mixing operation.
Water quality	Note	The water used for mixing (primarily drinking water) should preferably have a hardness of 15°e as well as a pH value of about 7. The quality of the water should be known in order to avoid potential problems (bacteria, pH value, foaming) during the mixing.
Mixing	Note	Unlike with commonly employed cutting fluids, the water and coolant can be added in any desired order.
Concentration	Note	Dilute MOTOREX-COOLANT-F with tap water to create a 5%-cooling medium. Always multiply the value read off the refractometer by a factor of 1.2.
Monitoring the concentration	Routine	Check the concentration every three months. The deviation should not exceed 0.5%.
Monitoring the pH value	Routine	Check the pH value every three months.
	Below 8.0	Add 3% system cleanser SWISSCARE SC to the coolant and empty the cooling system after about 24 hours, rinse with water and immediately refill.
Foaming	Water is too soft	Ideal water hardness from 12° to 15°e. Add 0.005% to 0.015% MOTOREX ANTIFOAM SF.
	Pumps are drawing in air	Check whether the coolant system is tightly sealed. Check the level.
	Concentration is too high	Dilute the cooling medium to 5% with water.
	System cleanser SWISSCARE SC was used	Not sufficiently rinsed with water: add 0.005% to 0.015% MOTOREX ANTIFOAM SF.
Corrosion	Concentration is too low	Raise the concentration to at least 5%.
	Bacteria contamination	See "Monitoring the pH value".
Foul smell	Bacteria contamination	Add 3% system cleanser SWISSCARE SC to the coolant and empty out the cooling system after about 24 hours, rinse with water and immediately refill.
Gelatinous residues	Note	Add 3% system cleanser SWISSCARE SC to the coolant and empty out the cooling system after about 24 hours, rinse with water and immediately refill.
Storage	Note	COOLANT-F can be kept for 1 year if tightly sealed.