

Antifreeze Agents

applicable for MAN-ES type medium-speed engines

Manufacturer	Product Name	Concentration Range	Frost Protection ¹
BASF	Glysantin G48	min. 35 vol.-% max. 60 vol.-% ²	min. -20 °C max. -50 °C
Castrol	Radicool NF Radicool SF		
Wilhelmsen Ship Services	Nalfleet Cooltreat ELC		
Chevron	DELO XLC		
MAN Energy Solutions	PrimeServCool HC480		
ARTECO	Havoline XLC		
Total	Glacelf Auto Supra		

¹) Freezing Point according to ASTM D1177: 35 vol.-% eq. approx. -20°C // 55 vol.-% eq. approx. -45 °C // 60 vol.-% eq. approx. -50 °C (manufacturer's data)

²) Coolant concentrations above 55 vol.-% are only permissible if sufficient heat removal - through adequate cooling capacity - is available!