

SFC SERIES

Lubrication

Selection of lubricant

Refer to Table 2 to select appropriate viscosity.

Table 3 shows recommended lubricants.

Recommended Lubricant Grades - Table 2

Reducer Sizes	AGMA lubrication numbers ambient temperature C (F)	
	10 to 35 (50 to 95)	35 to 55 (95 to 131)
SFC060	6	6
SFC065	6	6
SFC070	6	6
SFC075	6	6

Note: Ambient temperature refers to temperature surrounding gearcase, i.e., cooling water return temperature. Oil grade selection assumes a cooling water return temperature of 95°F to 105°F.

Table 3 Typical Products

MANUFACTURER	AGMA GRADE 6EP	AGMA 6EP SYNTHETIC
AMOCO	Permagear EP LUB 320	Consult Manufacturer
MOBIL	Mobilgear 632	Mobilgear SHC 320
EXXON	Spartan EP320	Consult Manufacturer
CHEVRON	Gear Compound EP 320	Consult Manufacturer
SHELL	Omala 320	Consult Manufacturer
TEXACO	Meropa 320	Consult Manufacturer
SUNOCO	Sunep 320	Consult Manufacturer

Lubricants above are typical products ONLY and should not be construed as exclusive recommendations.

Caution

Cold Weather Starting

If the reducer is subject to non-continuous operation and is likely to be started when atmospheric ambient temperature is low (below 60°F), it is recommended to allow the return cooling water to flow through the tower for a period of 30 minutes prior to startup of the fan drive motor. This will reduce the viscosity of the Grade 6 oil.

Windmilling

Drives intended for intermittent operation may be subject to backdriving the reducer due to “windmilling” in one or both directions of rotation. Under certain circumstances this can cause damage to gears and/or bearings in the reducer. It is recommended that drives, which are operated intermittently, are prevented from windmilling by means of a brake. If this is considered impractical, contact Sumitomo Machinery Corporation of America for assistance with other means of protecting the reducer.

Anti-Condensation

Drives subject to frequent idle periods may be susceptible to the ingress of moisture through the breather as well as condensation inside the gearcase caused by temperature changes. To prevent damage to gears and bearings from water polluted oil, SMA can provide a special Hygroscopic Breather. Contact SMA for details.