MEES VAN DEN BRINK
SLANGEN & KOPPELINGEN

GUIDELINES CHART FOR CLEANING AND SANITIZING FOOD HOSES

	MEDIUM	HOSE TUBE	CONCENTRATION	TEMPERATURE
RINSING	Hot water	NR/NBR/SILICONE EPDM/BIIR/UPE	-	Max 90°C
PHYSICAL DISINFECTANT	Steam	NR/NBR	-	Max 110°C Max 10 min
		EPDM/BIIR/ UPE/PTFE	-	Max 130°C Max 30 min
		SILICONE	-	Max 135°C Max 18 min
CHEMICAL DISINFECTANT	Acid (i.e. Nitric acid)	NR/NBR/SILICONE	0,1%	Max 65 °C
			2%	Max 25 °C
		EPDM/BIIR/UPE/PFTE	0,1%	Max 85 °C
			3%	Max 25 °C
	Alkaline soloution (i.e. Caustic soda)	NR/NBR/SILICONE	2%	Max 65 °C
			4%	Max 25 °C
		EPDM/BIIR/UPE/PFTE	2%	Max 85 °C
			5%	Max 25 °C
	Disinfectant (i.e. Peracetic acid)	NR/NBR/SILICONE	1%	Max 25 °C
		EPDM/BIIR/UPE/PFTE		Max 40 °C

The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure. The service life of rubber hoses is directly dependent on frequency and time of exposure to PHYSICAL and CHEMICAL disinfectants. Users should frequently monitor the physical condition of the rubber hose material product contact surfaces. Such observations are necessary to determinate the actual sanitary service period of rubber hoses.

The present tabulation is based on tests and on generally available sources, and believed to be reliable.
However, must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use such as and not limited to duration of exposure and stability of the fluid and possible contamination.