

**MANIFATTURA TUBI GOMMA S.p.A.**

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Cleaning agent	Rubber type	Concentration	Temperature
Hot water	EPDM, Butyl, NBR	-	Up to 95°C
	PFA, Silicone, PTFE	-	Up to 95°C
	TPE	-	Up to 90°C
	NR, NR/SBR, TPU	-	Up to 50°C
Steam	NR, NR/SBR	-	100°C max 10'
	NBR, EPDM, Butyl	-	130°C max 30'
	Silicone	-	135°C max 30'
	UPE	-	100°C max 20'
	PFA/PTFE	-	130°C max 30'
	TPU	-	Not suitable
	TPE	-	120°C max 10'
	Caustic soda	NBR, NR, NR/SBR	1%
Silicone, TPU		1%	80°C
EPDM, Butyl, TPE, UPE		3%	80°C
PFA, PTFE		3%	80°C

Cleaning agent	Rubber type	Concentration	Temperature
Nitric acid Phosphoric acid Peracetic acid	NR, NR/SBR, NBR, TPU	1%	Room temperature + cleaning*
	EPDM, Butyl, TPE	1%	Room temperature
	Silicone, UPE	0,5%	80°C
	PFA, PTFE	3%	80°C
Chloridric acid Sodium hypochlorite	NR, NR/SBR, NBR, TPU	200 ppm	Room temperature + cleaning*
	EPDM, Butyl, TPE	200 ppm	80°C max 20'
	Silicone, UPE	200 ppm	80°C max 20'
	PFA, PTFE	200 ppm	80°C max 30'

\*Water cleaning at room temperature

## ATTENTION

- **Washing: no longer than 30 min, unless otherwise stated.** The lifetime of the hose will be shorter in case of higher temperature, pressure, duration of cleaning processes, concentration of chemicals used and number of cleaning or sterilization cycles. Therefore we suggest to check the hose regularly.

## NOTE

- This table is based on tests carried out by our laboratory and/or by third bodies; however, it does not consider the specific operating conditions. All data stated are only intended to provide general guidelines.
- We suggest to wash the hoses using hot water before the first application, and to perform a sanitation process before use in contact with foodstuffs.
- Manifattura Tubi Gomma is prepared to perform different tests and inspections, e.g. checking the state of the hose using an optical probe, as well as its compliance with the conditions of use.