

# TECHNICAL INFORMATION

## Usage of hoses

No. 400/28 V5



	<b>Fluorinated rubber 1203150</b>	<b>Tygon (old) 8320395</b>	<b>Rubber 1180681</b>	<b>Tygon (new) 8320766</b>	<b>Tygon w. PTFE-lining 4594679</b>
Material	FKM	PVC	CR-NR DWN 2715	PVC	PVC with PTFE
Chemical description	Fluor caoutchouc	Polyvinyl chloride	Chloroprene caoutchouc / Natural rubber	Polyvinyl chloride	Tygon coated and Polytetrafluoroethylene (PTFE) lined
Inner diameter	5 mm	5 mm	5 mm ± 0.2 mm	5 mm	5 mm
Outside diameter	8 mm	8 mm	9 mm	8 mm	8 mm
Section thickness	1.5 mm	1.5 mm	2 mm+ 0.3 mm	1.5 mm	1.5 mm
Rigidity	75 Shore	55 Shore A	60 Shore A	56 Shore A	
Color	Black	Transparent	Black	Transparent	Transparent
Advantage	Applicable for vapors	Transparent	electric conductive	Transparent, Phthalate-free (plasticizer)	Especially for aggressive gases like chlorine
Temperature range	-15 °C to + 200 °C	-40°C to + 74 °C	-30°C to +134°C	-46°C to +74°C	-36°C to +74°C
Use in Ex areas	Applicable	Applicable	Applicable	Applicable	Applicable
Antistatic	No	No	Yes	No	No
Max. delivery length	100 m	150 m	100 m	Up to 800 m	Spool of 15 meter
Ex attribute	No	No	Yes	No	No
Further features	Solvent resistant	Flexible			Flexible

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## Test results + measuring recommendation:

		Indication for 10 m FKM hose 1203150				Indication for 10 m Tygon R-3603 hose 8320395				Indication for 10 m Antistatic rubber hose 1180681				Indication for 10 m Tygon E-3603 hose 8320766				Indication for 10 m Tygon SE-200 Hose w. PTFE 4594679				
		Gassing / floating time				Gassing / floating time				Gassing / floating time				Gassing / floating time				Gassing / floating time				
Gas	code	1 min	3 min	5 min	> 5 min	1 min	3 min	5 min	> 5 min	1 min	3 min	5 min	> 5 min	1 min	3 min	5 min	> 5 min	1 min	3 min	5 min	> 5 min	
Carbon dioxide	CO <sub>2</sub>	X				X				X				X				X				
Carbon monoxide	CO	X				X				X				X				X				
Oxygen	O <sub>2</sub>	X				X				X				X				X				
Nitrogen dioxide	NO <sub>2</sub>	X				X				X							X	X				
Chlorine *	Cl <sub>2</sub> *	Please use a polytetrafluoroethylene (PTFE) hose																				
Hydrogen sulphide	H <sub>2</sub> S	X				X				X				X				X				
Phosgene	COCl <sub>2</sub>		X				X				X						X				X	
Hydrogen Cyanide	HCN			X				X			X						X			X		
Phosphine	PH <sub>3</sub>		X				X				X			X				X				
Ammonia	NH <sub>3</sub>				x			X				X			X				X			
Nitric oxide	NO		X				X					X		X				X				
Sulfur dioxide	SO <sub>2</sub>			X				X			X						X	X				
Lightly volatile hydrocarbons or gases	Methane – Hexane	X				X				X				X				X				
Medium volatile hydrocarbons or gases	Acetic acid, Toluene, Octane			X								X								X		
Low volatile hydrocarbons or vapors	n-Nonane, Styrene			X																X		

**Green:** applicable, arrived t90- time  
**Yellow:** conditional applicable longer floating time t90-time arrived in > 5 minutes  
**Red:** not applicable

\* Up to 1 meter fluorinated rubber (FKM) is applicable