



## Declaration of compliance

**Business Operator**

CEJN AB  
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**Product name** Thermal Management hose

Declaration covers following articles:  
19 900 9704, 19 900 9706, 19 900 9708, 19 900 9710, 19 900 9712  
19 900 9716

**Material**

inner core

Black, smooth, antistatic ( $R < 1 \text{ M}\Omega/\text{m}$ ) EPDM compound, sulphur free cured, nitrosamine free with peroxide curing.

reinforcement

High tensile strength synthetic textile yarns.

external

Black smooth EPDM rubber. Weather, ozone and ageing resistant.  
Flame Resistance according to UL94 Class V0

**Temperature range**

Min. temperature:  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ )  
Max. temperature:  $+100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ )

**Coolant compatibility**

Approved coolant compatibility acc. UL/IEC 62368-1, Clause G15.2.3.  
Test protocol can be provided upon request.

**Flammability (UL94 V-0)**

Flammability properties acc. ANSI/UL 94 V-0 and IEC 60695-11-10 V-0.  
Yellow paper can be provided upon request.

**Thermal properties**

Tested acc. UL746B – Electrical strength, Mechanical Impact and Mechanical strength.

**Hose properties**

Change in length

Stable in length when pressurized. Tested acc. to ISO 1402.

Leakage test

Leakage test at 20bar acc. ISO 1402.

Burst test

Burst test granting structural strength of hose acc. ISO 1402. Min pressure allowed 40bar.

Cold bend

Cold bend test acc. ISO 10619-2

Resistance to vacuum

Test with vacuum acc. ISO 7233

**Main office**

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**Adhesion** Bond strength between inner and outer layer of hose adhesion tested acc. ISO 8033

**Accelerated life** Hose assemblies filled with PG-25 subject to 7 bar of pressure at 87°C for 20 days. Leakage test at max WP after test exposure.

		Pressure (bar)	Exposure Duration (days)	Exposure Temp (C°)	Media	Pre-exposure air under water	Exposure Leakage	Post-exposure air under water
199009704	1/4"	7	20	87	PG-25	Pass	Pass	Pass
199009706	3/8"	7	20	87	PG-25	Pass	Pass	Pass
199009708	1/2"	7	20	87	PG-25	Pass	Pass	Pass
199009710	5/8"	7	20	87	PG-25	Pass	Pass	Pass
199009712	3/4"	7	20	87	PG-25	Pass	Pass	Pass
199009716	1"	7	20	87	PG-25	Pass	Pass	Pass

**Bend radius** Verification of ovality in bend area at min bend radius acc. ISO 10619-1 method A1. Max ovality allowed  $\pm 12\%$  between major/minor axis.

No	Size	Bend radius (mm)	With curvature				Normal to curvature				Against Curvature			
			Hose OD (mm)		% Ovality		Hose OD (mm)		% Ovality		Hose OD (mm)		% Ovality	
			x-axis	y-axis	x-axis	y-axis	x-axis	y-axis	x-axis	y-axis	x-axis	y-axis	x-axis	y-axis
199009704	1/4"	40	12,1	11,9	0,80%	-0,80%	12,2	11,7	1,70%	-2,50%	12,3	11,4	2,50%	-5,00%
199009706	3/8"	40	16,75	15,1	4,60%	-7,80%	16,89	14,98	5,40%	-8,50%	17,29	14,43	7,90%	-11,90%
199009708	1/2"	50	23,35	21,23	3,60%	-5,90%	23,5	20,91	4,20%	-7,30%	24,82	19,85	10,10%	-12,00%
199009710	5/8"	85	26	24,5	2,40%	-3,20%	26,1	24,3	2,80%	-4,00%	26,9	23,8	5,90%	-5,90%
199009712	3/4"	100	30,5	28,1	1,30%	-5,10%	30,7	27,5	2,00%	-7,10%	31,3	27,3	4,00%	-7,80%
199009716	1"	130	40,12	32,03	9,50%	-10,80%	39,89	31,83	8,90%	-11,40%	40,72	31,62	11,10%	-11,90%

**Compression set tube mtrl.** Acc. ASTM D-395-18 method B for 70 hours at 125°C

Standard	Hose layer	Condition	Required MAX %	Test Result
ASTM D-395-18	Tube	70 hours at 125°C	75	12,8%

**Ozone Resistance** 100 ppm of ozone at 40°C for 168 hours at min. bend radius acc. ISO 7326.

**Permeation** Test specimens placed in air circulating over at 65°C and monitor mass loss daily until steady state loss is achieved. Steady state loss of mass will represent permeation.

**Documentation** Test reports and documentation can be made available upon request for all above stated properties.

**Date** 20<sup>th</sup> of March 2026

**Approved by**

Johan Olsson  
Product manager - Hose products

**Main office**

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