

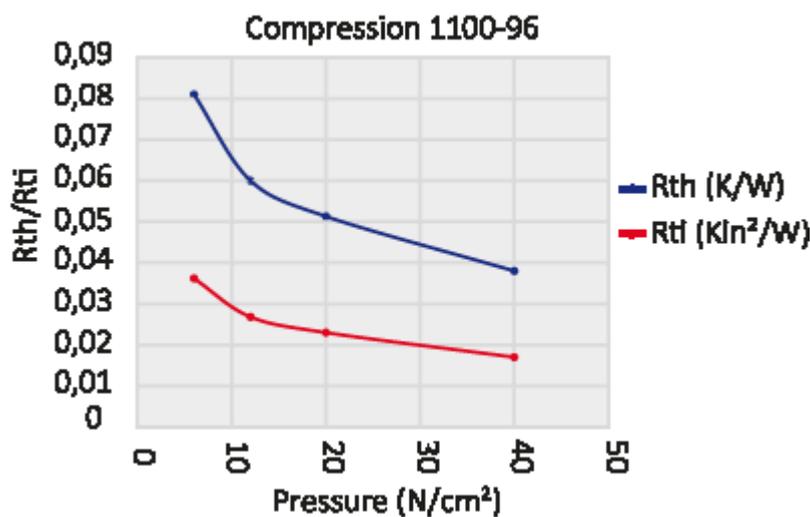
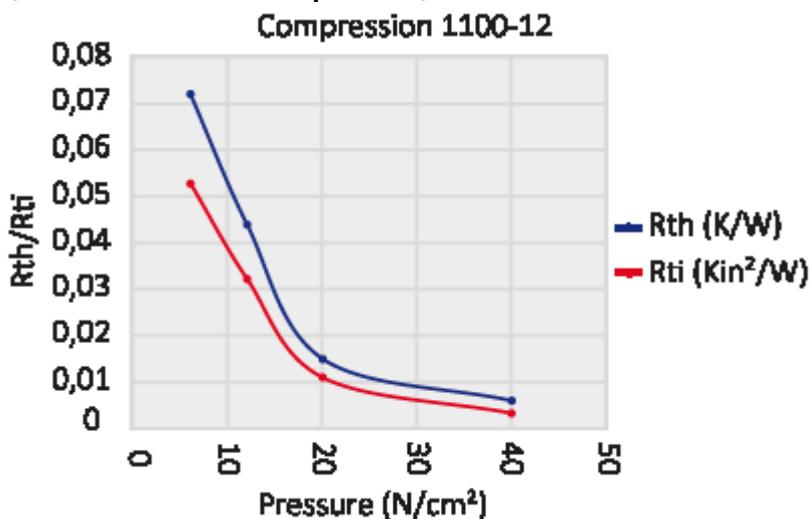
1100 - Thermal grease

Infracron Thermal grease is a ceramic-filled single-component silicone with high thermal conductivity. The non-crosslinked thermal compound will not dry out and the silicone components do not leak out of the compound. The silicone-free thermal compound 1100-12 consists of 0,04 of synthetic, thermal polymer and is suitable for fast and effective heat dissipation. The paste is particularly suitable for silicone-sensitive applications. The long-term stability of our 1100 Series guarantees full functionality during the entire lifetime of the product. Under normal application conditions Thermal grease will not cure, dry out, or melt. Special storage of Thermal grease is not required and it can be stored without special conditions for up to 12 months. If any separation of the filler materials is noted, the 1100 Series must be mixed thoroughly before use.

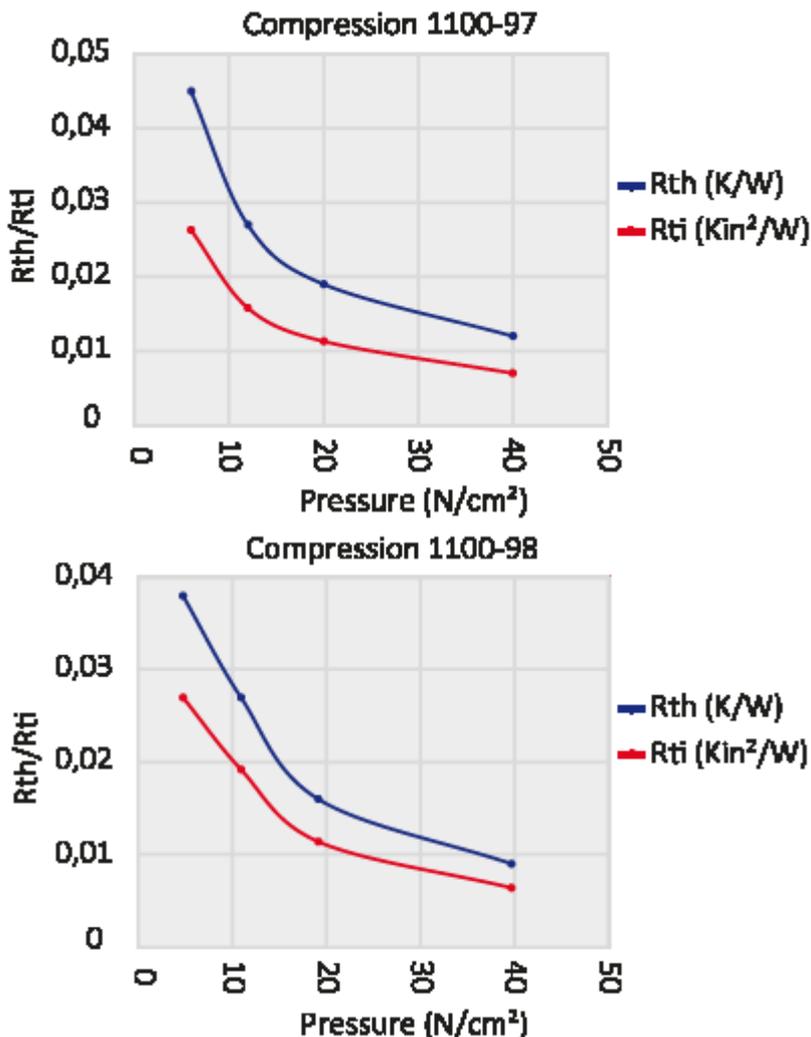


Thermal grease

Comparison of thermal resistance 0,02 (in relation with contact pressure)



1100 - Thermal grease



1100-97 is a ceramic-filled single-component silicone with high thermal conductivity. The non-crosslinked thermal compounds do not dry out and the silicone components do not leak out of the compound.

Silicone-free version

The silicone-free Thermal compound 1100-12 consists of synthetic, thermal polymer and is suitable for fast and effective heat dissipation. This paste is particularly suitable for silicone-sensitive applications. Its long-term stability guarantees full functionality during the entire lifetime of the product. Under normal application conditions the 1100-12 silicone-free compound will not cure, dry out, or melt.

Storage

Special storage is not required for our Thermal grease, so it can be stored under normal climate conditions for up to 12 months. If any separation of the filler materials is noted, the 1100 Series must be mixed thoroughly before use.

Thermal resistance in relation to contact pressure

1100 - Thermal grease

Contact pressure (N/cm)	Thermal resistance (K/W)			
	1100-12	1100-96	1100-97	1100-98
10	0.055	0.065	0.032	0.035
15	0.040	0.055	0.023	0.020
20	0.015	0.050	0.019	0.015
25	0.008	0.048	0.018	0.014
30	0.007	0.045	0.015	0.013
35	0.006	0.042	0.013	0.011
40	0.005	0.038	0.012	0.010

*These values are measured under laboratory conditions.
In other situations results may differ; please read our Guarantee.*

Properties perpart number

Properties	Unit	1100-12	1100-96	1100-97	1100-98
Colour		Silver	Dark white	White	Grey
Compound		soft / pasty			
Thermal properties					
Thermal resistance Rth	K/W	0.006	0.038	0.012	0.01
Thermal impedance Rti	Cmm/W	2.2	11	4.5	4.1
	KIN/W	0.0033	0.017	0.007	0.0064
Thermal conductivity	W/mK	10	2.4	5	6
Electrical properties					
Electrical conductivity (according to DIN 51412-1)	pS/m	53	8	0	0
Mechanical properties					
Measured thickness (+/- 10%)	mm	0.25	0.025	0.025	0.025
Physical properties					
Application temperature	C	-	-60 to +150	-60 to +150	-60 to +150
Density	g/cm	1.4	2.6	2.1	2.2
Viscosity*	Pas	30 - 60	25 - 35	70 - 110	110 - 150
Total mass loss (TML)	Ma.-%	0.1	1.4	1.3	1.5
Possible thickness	mm	-	Variable	Variable	Variable
Long-term stability (1000 h / 85C / 85% relative humidity)					
Thermal resistance 1000h	K/W	0.006	0.038	0.012	0.008

*These values are measured under laboratory conditions.
In other situations results may differ; please read our Guarantee.*

*Shear rate 4s-1 / 25C

Series	Type
1100	Select an option:
	12 : Silver
	96 : Dark white
	97 : White
	98 : Grey