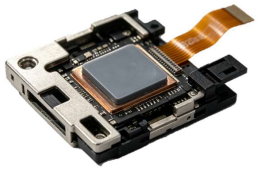
TIS®300-45 Series
Electrically Conductive Silicone



TIS®300-45 Series is nickel/graphite-filled conductive silicone sheet is developed for thermal management and electromagnetic interference (EMI) suppression of 3C electronic products, high-frequency signal equipment and precision electromagnetic components. It features excellent thermal conductivity and surface resistivity, along with high compressibility and soft elasticity, and is suitable for low-pressure mounting environments.The **TIS®300-45** series material is resistant to corrosion caused by leakage current and maintains its stability under harsh conditions.

Features

》 High thermal conductivity
》 Surface resistivity (Ohm·cm) :< 1.0×10^3
》 Good corrosion resistance
》 Good compressibility, soft yet elastic, suitable for low-stress applications

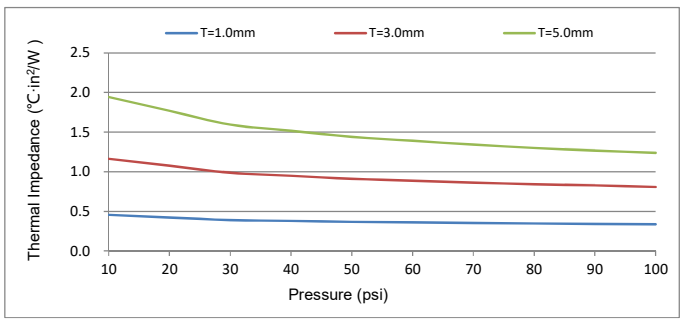
Applications

》 EMI shielding & grounding for gaps of chassis cover plates
》 Grounding for power battery module housings
》 Sealing & shielding for enclosures of RRU, switches and blade servers
》 Industrial-control equipment cavities
》 Sealing for test shielding boxes
》 Grounding & shielding for cavity covers of on-board power supplies

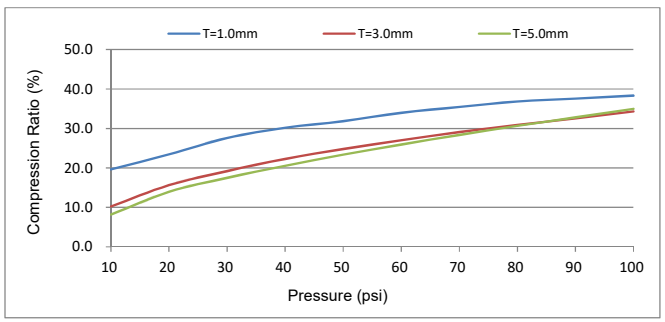
Typical Properties of TIS®300-45 Series

Property	Value	Test Method
Color	Dark Gray	Visual
Composition	Graphite nickel-plated filled silicone rubber	ZKTM J024
Thickness Range (inch/mm)	0.020~0.200 0.50~5.00	ASTM D374
Hardness (Shore OO)	70	ASTM D2240
Density (g/cm^3)	2.4	ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200	ZKTM J025
Surface Resistivity (Ohm·cm)	< 1.0×10^3	ASTM D257
Thermal Conductivity (W/m·K)	4.5	ASTM D5470
	4.5	ISO22007
Flame Rating	V-0	Equivalent to UL94

Thermal Impedance



Compression Ratio



Product Specifications

Standard Thickness: 0.020" (0.50 mm)~0.200" (5.00 mm) with increments of 0.010" (0.25 mm)
Standard Size:
For thickness ≤ 3.00 mm: dimension 16"×16" (406 mm × 406 mm)
For thickness > 3.00 mm: dimension 10"×13" (254 mm × 326 mm)

The TIS® series is available in custom shapes and various forms.
For other thicknesses or more information, please contact us.

Product Identifier

TIS3 00 - 45

- 45 — Thermal Conductivity: 4.5 W/m·K
- 00 — Thickness: 20mils ~ 200mils
- TIS3 — Product Series

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