



# MIF<sup>®</sup> ~Heat dissipation & Sound absorption material~

 SUMITOMO RIKO

## Overview

Sound leakage prevented & Heat radiation

- The world's first heat radiation soundproof foam which overturned common sense
- Can be fitted to target item due to its flexible various molding → To prevent sound leakage and radiation heat well

Using example: Soundproofing of heat-generating parts such as motors

The state of heat coming out from the outside of soundproof cover

Motor only



Noisy

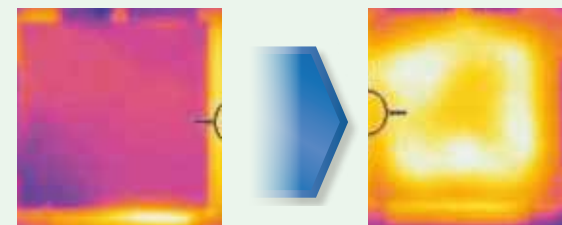
With soundproof cover



Quiet

Compatible by  
using MIF<sup>®</sup>

Stay  Escape



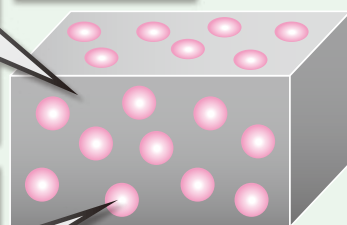
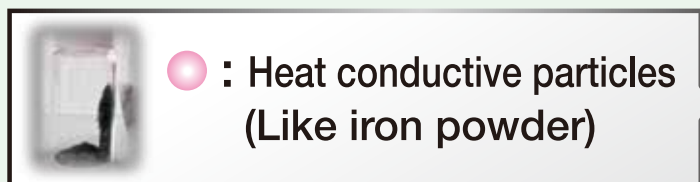
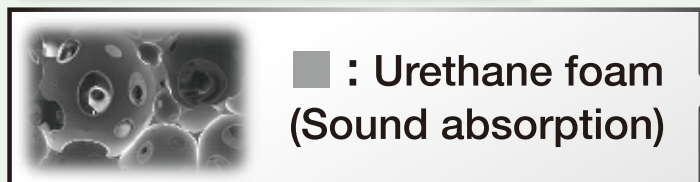
The heat of motor will not stay  
even soundproof cover applied



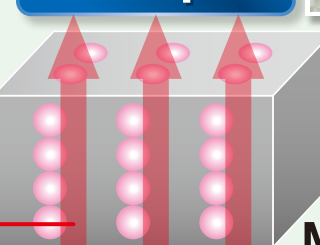
# MIF<sup>®</sup> Features

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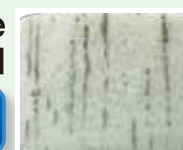
## What is the MIF?



Heat bridges



With magnetic field



**Patented  
MIF**

Magnetic Induction  
Foaming

Change “thermal insulation” to “heat dissipation”  
by the action of magnetic force

*To prevent sound leakage and  
dissipate heat*

~Material with heat radiation &  
sound absorption~

## Features

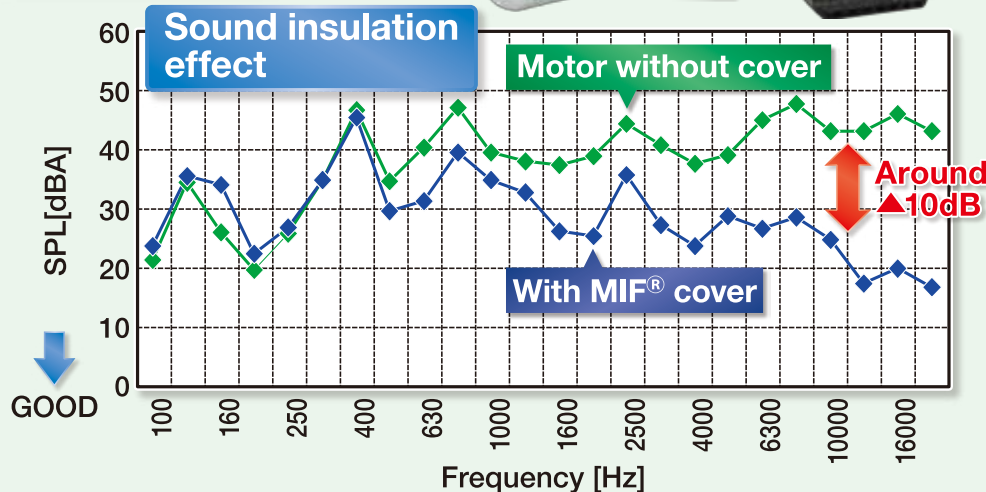
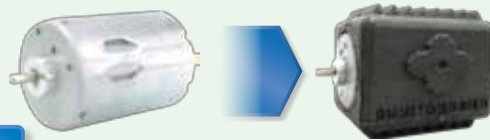
- ✓ Sound insulation : Can be used as sound insulation material by the sound absorbing effect of urethane foam
- ✓ Heat radiation : Around 20 to 100 times more dissipated compared conventional urethane foam
- ✓ Flexibility in shaping : Can be fitted to corrugated surface for preventing sound leakage and heat radiation  
due to its flexible mold casting process



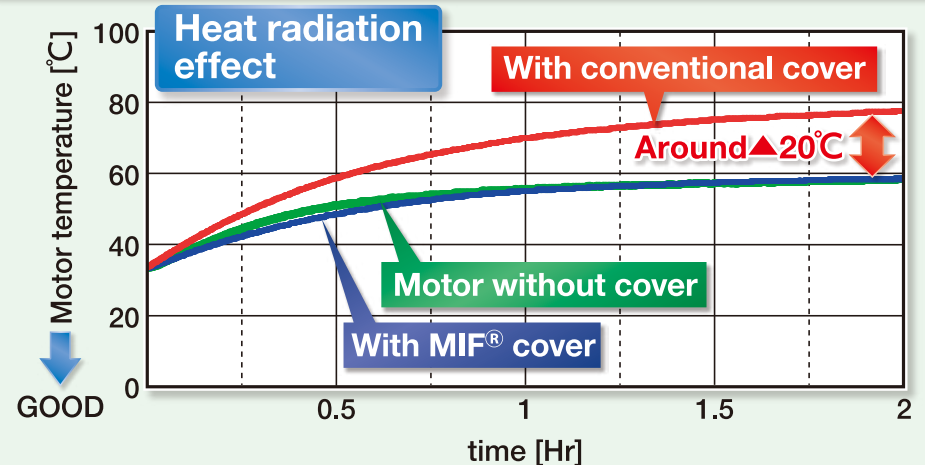
# Typical Applications

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## Example



**MIF achieve a good balance between “sound insulation” and “heat radiation”**



## Applicable parts

### ★Noise & Heat radiation measures for EVs and automotive electrical equipment

- \*Driving motor  
⇒ Noise/Heat radiation measures
- \*Battery ⇒ Heat radiation
- \*Relay ⇒ High frequency noise measures
- \*Motor/battery control ECU  
⇒ High frequency noise measures
- \*Inverter ⇒ Heat radiation

- \*Fan motor ⇒ Noise measures
- \*Electric pump ⇒ Noise measures
- \*Power generation motor  
⇒ Noise/Heat radiation measures



- \*Electric power steering motor  
⇒ Noise/Heat radiation measures
- \*Blower motor ⇒ Noise measures
- \*Control ECU  
⇒ High frequency noise measures
- \*Power window motor ⇒ Noise measures
- \*Power seat motor ⇒ Noise measures