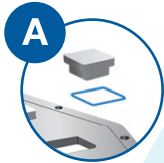
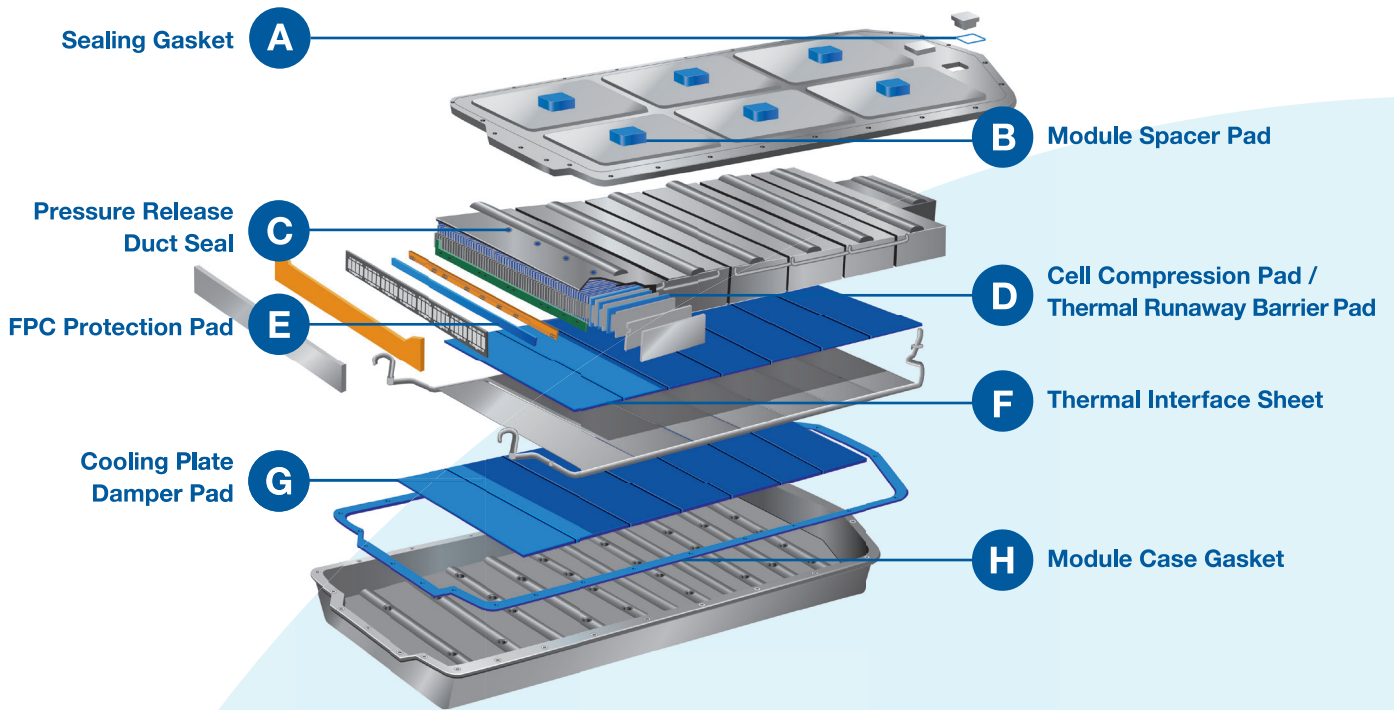


Solutions for EV batteries

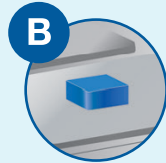
INOAC Corp. offers a wide range of technical polyurethane foam, silicone foam and elastomer solutions for EV battery pack applications.

Our battery application foam portfolio includes products specifically developed to meet recent EV technology requirements for safety and improve function performances.



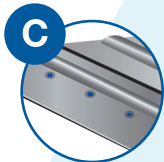
PORON® ATR-32

Low compression set offers reworkable and reliable sealing performance at higher temperature.



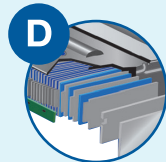
CELLDAMPER® BF-300

Superior vibration damping performance. Available soft to firm grades lineup to support different case shape.



PORON® ATR-32PR
GOMSPOR® TT-4106

Sealing performance at low compression force provides parts shape design flexibility.



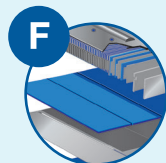
PORON® XRS-48,XSA-20PR,RX-32,TR-32
NanNex® TL3503

Low compression set provides stable compression force to absorb expansion-contraction of cells. Available in tacky surface finish to stick to cells without adhesive.



PORON® RX-32

Vibration protection, resistance from high temperature and flammability.



Transcool GNS,GXIII

Heat transfer in between cell and cooling plate, improve cooling efficiency/thermal management.



PORON® TR-24
CELLDAMPER® BF-150
GOMSPOR® E-4088,E-4348

Superior vibration damping performance and stable compression force maximizes cooling plate contacting area to cells.



NanNex® TL7404

Protects from dust/water penetration at low compression force and it offers flexibility to case shape design.

Material Selection Guide

SCAN ME
FOR MORE INFO



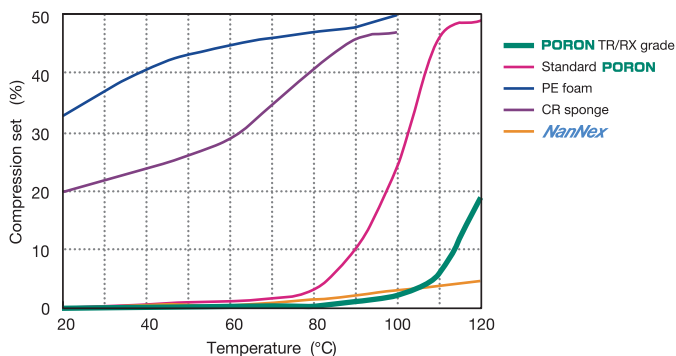
Recommend Application	Product Family	Grade Name	Material	Thickness (mm)	25% CLD (Mpa)	Density (kg/m3)	Flammability	Features	
Cell Compression Pad	PORON®	RX-32	Polyurethane	2.0 - 8.0	0.061	320	UL 94 V-0	V-0 FR rating	
		TR-24		2.0 - 10.0	0.035	240	UL 94 HBF FMVSS No.302	Soft	Heat resistance
		TR-32		1.0 - 5.0	0.066	320	FMVSS No.302 ≥2.0mm	Medium	
		XRS-48*		5.0	0.153	480	-	Low temp. dependency	
		XSA-20PR*		1.0 - 2.9	0.025	200	UL 94 HBF equivalent	Self-stick tacky surface	
	NanNex®	TL3503	Silicone	1.0 - 6.0	0.036	260	UL 94 V-0	High temp. heat resistance	
Sealing Gasket	PORON®	ATR-24PR	Polyurethane	2.0 - 5.0	0.060	240	FMVSS No.302 ≥4.0mm	Soft	Dust / Air tightness
		ATR-32PR		1.0 - 5.0	0.100	320	FMVSS No.302 ≥2.0mm	Medium	
	GOMSPOR®	TT-4106	Silicone	1.5 - 25.0	0.046	280	FMVSS No.302 ≥1.5mm	Sealing, mechanical strength	
	NanNex®	TL7404*		1.0 - 6.0	0.089	400	UL 94 V-0 equivalent FMVSS No.302	IPX8 water seal rating	
Spacer / Damper Pad	CELLDAMPER®	BF-150	Polyurethane	0.5 - 50.0	0.034	150	FMVSS No.302	Soft ↑ ↓ Firm	Anti-vibration, Low compression set
		BF-300		1.5 - 50.0	0.156	300	FMVSS No.302		
		BF-400		3.0 - 50.0	0.232	400	FMVSS No.302		
		BF-500		3.0 - 40.0	0.413	500	FMVSS No.302		
		BF-700		3.0 - 40.0	0.844	700	FMVSS No.302		
	GOMSPOR®	E-4088	EPDM	1.0 - 31.0	0.032	100	FMVSS No.302 ≥5.0mm	Sealing, Heat and chemical resistance	
	E-4348	1.0 - 28.0		0.047	150	UL 94 V-0	Sealing, Low sulfur, V-0 FR rating		

Recommend Application	Product Family	Grade Name	Material	Thickness (mm)	Hardness (ASKER-C)	Thermal Conductivity (W/mk)	Flammability	Features	
Thermal Interface	Transcool	GXIII	Silicone	1.0 - 6.0	22	3.0	UL 94 V-0	Soft, high thermal conductivity	
		GNS	Acrylic	1.0 - 3.0	28	2.7	UL 94 V-0 ≥2.0mm UL 94 V-2 ≤1.5mm	Siloxane free	

* products are under development, the physical properties of these items are subject to change.

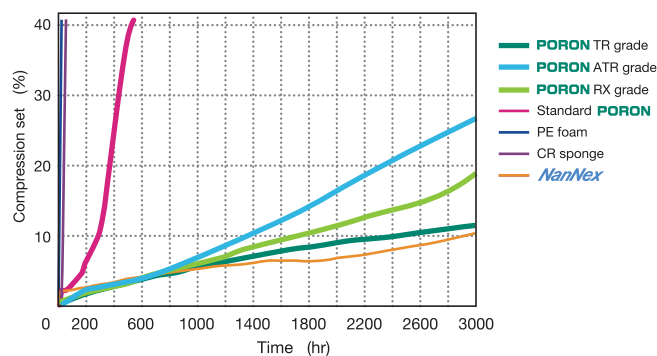
Compression Set (Temperature Dependence)

A sample is compressed 50% at each temperature and allowed to stand for 22 hours. After releasing the compression, leave it for 30 minutes, and measure the compression set.



Compression Set (Long-term Continuous Compression)

The sample is compressed by 50% and left at 80°C. After a predetermined time, the pressure is released and after 30 minutes, the thickness is measured to calculate the compression set.



Contact

INOAC CORPORATION
Foam Products DIV.

3-1-36 Imai-cho, Anjo City, Aichi 446-0071, Japan
E-mail : HAPPOHIN@inoac.co.jp

株式会社 イノアック コーポレーション
INOAC CORPORATION

Head Office 2-13-4 Meieki Minami, Nakamura-ku, Nagoya, Aichi 450-0003
TEL : +81-52-581-1086 FAX : +81-52-581-4726

Head Office 4F West-city Bldg., 2-9-3 Osaki, Shinagawa-ku, Tokyo 141-0032
(Tokyo) TEL : +81-3-3492-9171 FAX : +81-3-3492-8319

●The information in the catalog is as of May 2023.

●Unauthorized reprinting and/or reproduction of the charts, images, photographs, etc. in this flyer are forbidden.