

celsure[®]

Temperature Controlled Packaging

THINKING INSIDE THE BOX



One of the top
26 innovative
organizations in
India – **CII Industrial
Innovation
awards 2017**

PLUS[®] | TECHNOLOGY FOR
A BETTER WORLD

PLUSS[®]

**TECHNOLOGY FOR
A BETTER WORLD**

Established in 1994, Pluss Advanced Technologies Pvt. Ltd. (formerly Pluss Polymers Pvt. Ltd.) is a materials research and manufacturing company

involved in the field of speciality polymeric additives and phase change materials. Research and innovation has been the focus of the company since inception. The company bears the distinction of pioneering and creating cost effective and innovative products and applications that provide impacting solutions.

Experience, interdisciplinary thinking and practical skills form the growth guidelines for PLUSS[®]. The company has an equity infusion from Tata Capital Innovations Fund.

ABOUT **CELSURE[®]**

Celsure[®] is a set of pre-qualified shipping containers which uses the advanced savE[®] Phase Change Material (PCM) technology to provide the desired temperature maintenance for as long as 120 hours.

It is designed to ensure a simple and error free assembly with no requirement of pre-conditioning.

ADVANCED SHIPPING SOLUTIONS FOR **PHARMACEUTICALS**

Validation
ISTA 7D

Backup Duration
up to
120 HOURS

KEY FEATURES

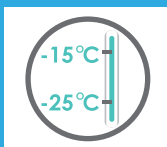
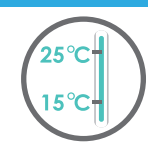
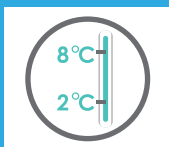
No thawing/sweat time for PCMs



Assembly time
only 5 minutes



Guaranteed temperature
maintenance



Up to 120 hours
of back up duration



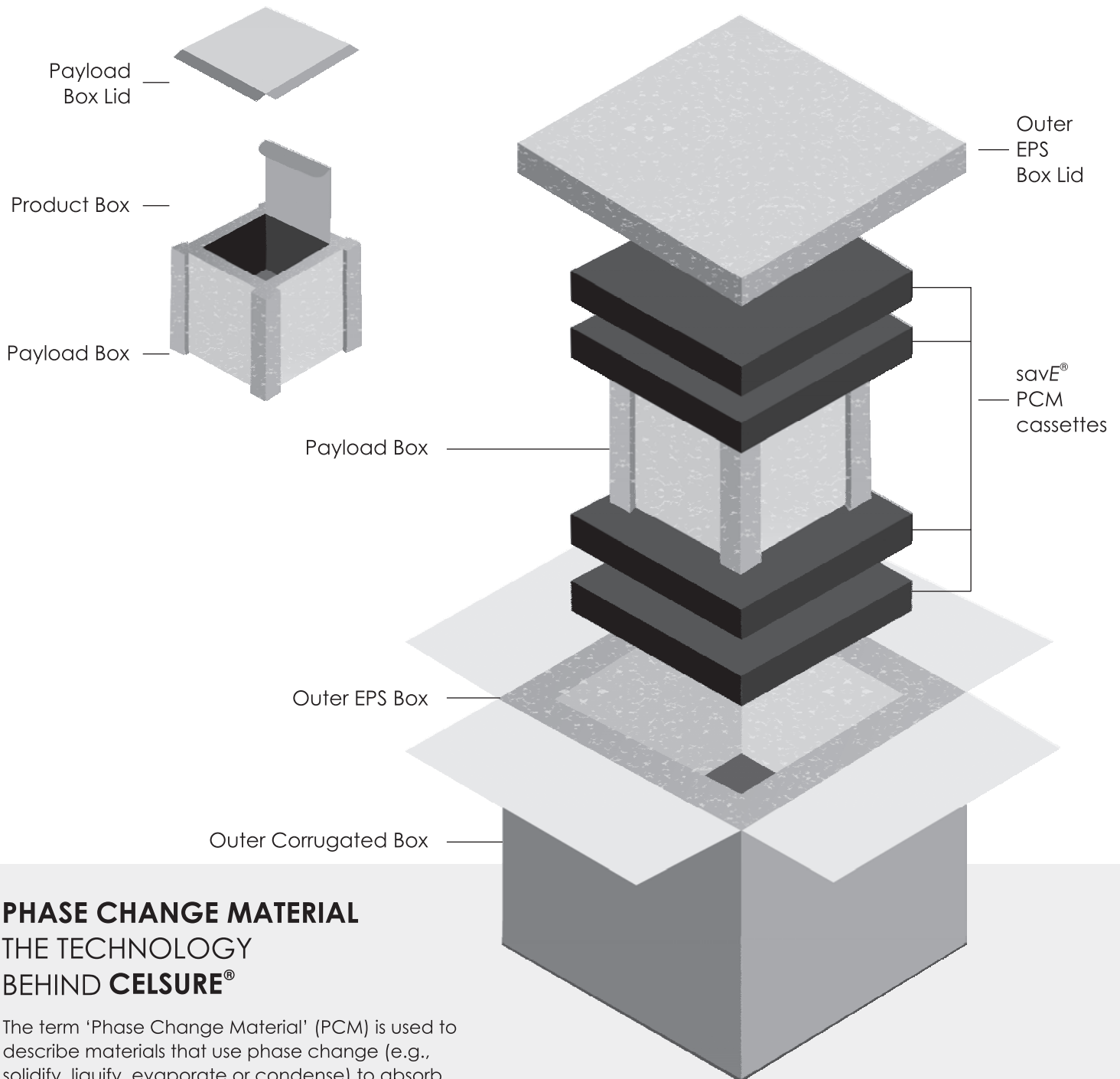
Uses savE[®]
Phase Change Materials



Patent pending design



DESIGN OF CELSURE®



PHASE CHANGE MATERIAL THE TECHNOLOGY BEHIND CELSURE®

The term 'Phase Change Material' (PCM) is used to describe materials that use phase change (e.g., solidify, liquify, evaporate or condense) to absorb or release large amounts of energy at constant temperatures. Phase Change Materials leverage the natural property of latent heat to help maintain product and environment temperature for extended periods of time.

Disclaimer: The above image is a representative for design of the Celsure® box 7L4D-08P.

PRODUCT RANGE

2°C to 8°C

CELSURE [®] EXPRESS		
Model No.	Payload Volume (l)	Backup Duration (hours)
4L2D-08P	5	48
7L2D-08P	7	48-72
14L2D-08P	14	48-72
28L2D-08P	28	48-72

CELSURE [®]		
Model No.	Payload Volume (l)	Backup Duration (hours)
7L4D-08P	7	96-120
14L4D-08P	14	96-120
28L4D-08P	28	96-120

15°C to 25°C

CELSURE [®] EXPRESS		
Model No.	Payload Volume (l)	Backup Duration (hours)
4L2D-25P	5	48
7L2D-25P	7	48-72
14L2D-25P	14	48-72
28L2D-25P	28	48-72

15°C to 25°C

CELSURE [®]		
Model No.	Payload Volume (l)	Backup Duration (hours)
7L4D-25P	7	96-120
14L4D-25P	14	96-120
28L4D-25P	28	96-120

-25°C to -15°C

CELSURE® EXPRESS		
Model No.	Payload Volume (l)	Backup Duration (hours)
3L1D-25N	3	36

-25°C to -15°C

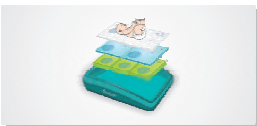
CELSURE®		
Model No.	Payload Volume (l)	Backup Duration (hours)
7L5D-25N	7	120

Last Mile Delivery Bags

2°C to 8°C

PronGO®		
Model No.	Payload Volume (l)	Backup Duration (hours)
3L12H-08P	3	10-12
20L12H-08P	20	10-12

INNOVATIONS



MiraCradle®
Neonate Cooler



PYKE Jacket



PRONGO®

MEMBERS



National Centre of Cold Chain Development, NCCD is an autonomous body established by the Government of India with an agenda to positively impact and promote the development of the cold-chain sector in the country.



India Energy Storage Alliance, IESA was launched in 2012 to help technology and system integration companies involved in energy storage and microgrids to understand and capture the opportunities in the growing markets.



Clean Energy Access Network, is an all India representative organization launched in 2014 with a clear mandate to support, unify and grow the decentralized clean energy sector in India.



Reichs-Ausschuss für Lieferbedingungen (RAL), Several active PCM enterprises formed the Quality Association PCM in 2004 to develop proper quality assurance procedures.

AWARDS



Supply Chain Innovation Award
for Celsure®- shipping solution
for pharmaceuticals



Cold Chain innovation of the year - 2016 for Celsure®- shipping solution for pharmaceuticals



Confederation of Indian Industry

CII Industrial Innovation Award - 2014 & 2017



Innovative Technology Award - 2015
Healthcare category



FICCI- DST Lockheed Martin Award - 2015



MIT Innovators under 35 India Award - 2016 & 2017

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