

# TRUEtemp®



TEMPERATURE SENSITIVE PRODUCT



## TRUEtemp Naturals™

The engineering team at PTG is committed to designing thermally efficient shipping solutions that protect your temperature sensitive products and decrease negative effects to the environment. With the introduction of TRUEtemp Naturals™ Cellulose, clients no longer need to choose between thermal efficiency and sustainability.

As more U.S territories prohibit the use of EPS (expanded polystyrene), PTG has been a driving force ensuring our clients have the option to make the switch to sustainable materials.

TRUEtemp Naturals™ Cellulose shippers are 100% curbside recyclable and repulpable, receiving OCC-E certification in 2017.

## Main Advantages

Advantages of TRUEtemp Naturals™ Cellulose Shippers:



Made from 100% recycled materials



Curbside recyclable & repulpable



Insulation value equal to EPS

Our team is committed to advancing green initiatives through innovation and development; we welcome the opportunity to solve your thermal shipping challenges and exceed your expectations in the process.

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## TRUEtemp® Endure

Practical choice when efficiency and compliance for cold chain profile delivery is a primary factor.

TRUEtemp® Endure EPS is manufactured from expanded polystyrene and is an industry standard for companies requiring flexibility in design, and the need to meet and protect product temperature specifications.

## Main Advantages

Advantages of TRUEtemp® Endure Shippers:

- Offered in a vast selection of qualified in-stock containers
- Available in set up or molded design
- Powered by CoolBrick®, Cool Gel®, Hydrosleeve™, and PTG's Customized family of PCMs
- Error-free modular pack-outs with single-step refrigerant conditioning
- Year-round performance in extreme temperatures
- Cost-effective for single-use shipments
- Available with wall thicknesses from ¾ in. to 3 in

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## TRUEtemp® Virtus

TRUEtemp® Virtus VIP is the bench-mark in performance-based vacuum insulated panels (VIP) for superior compliance in extreme temperatures.

TRUEtemp® Virtus VIP products provide thermal efficiency during critical point-to-point logistics and distribution while reducing PCM use.

## Main Advantages

Advantages of TRUEtemp® Virtus Shippers:



Have lighter weight rigid vacuum insulated panels which can be customized to various insulating thicknesses



Surpass real-time thermal performance standards Exceeding EPS performance by 13 times

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## TRUEtemp® Last Mile

TRUEtemp® Last Mile PUR Containers are manufactured from quality high-performance polyurethanes (PUR).

TRUEtemp® Last Mile pur meets the demands of extended shipping duration of high-value products. These solutions are ideal to maintain internal temperatures, especially in severe conditions.

## Main Advantages

Advantages of TRUEtemp® Last Mile Shippers:



Have an R-factor that exceeds EPS performance by 100%



Available in six-panel PUR containers and molded PUR containers



Can be custom designed

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## Pre-Qualified Solutions

PTG's line of pre-qualified solutions were designed to best meet seasonal temperature variables. PTG's Off-The-Shelf Solutions offer clients the ease of quick ordering and prompt delivery.

Product	Insulation Type	Temp Range Qual	Time Duration	Payload Size (Total Product Size)			
				L	W	H	Volume (Liters)
PTGS-070504-CEL	Cellulose	2-30 C	48	4.38	2.88	3.5	0.72
PTGS-080708-CEL	Cellulose	0-10C	36	9.5	8.5	9.5	12.57
PTGS-110708-CEL	Cellulose	0-10C	36	13	9	9.5	18.21
PTGS-110810-CEL	Cellulose	0-10C	36	13	9.75	12	24.92
PTGS-141309	Cellulose	2-8 C	48	11	10	9.13	16.46
PTGS-160808-CEL	Cellulose	0-10C	36	18	9.5	10	28.02
PTGS-221511	Cellulose	2-8 C	48	18.25	11	9.5	31.25
PTGS-236S-CEL-OTS	Cellulose	2-8C	48	8.25	6.5	7.25	6.00
PTGS-236W-CEL-OTS	Cellulose	2-8C	48	8.25	6.5	7.25	6.00
PTGS-243S-CEL-OTS	Cellulose	2-8C	48	10.75	8	10.75	15.00
PTGS-243W-CEL-OTS	Cellulose	2-8C	48	12.5	8	10.75	17.50
PTGS-250S-CEL-OTS	Cellulose	2-8C	48	16	10	11.375	29.50
PTGS-250W-CEL-OTS	Cellulose	2-8C	48	16	10	11.375	29.50
PTGS-100S-CEL-OTS	Cellulose, Dual Shipper	2-8C	48	8	6	6	4.72
PTGS-100S-CEL-OTS	Cellulose, Dual Shipper	-30C to -10C	48	8	3	6	2.36
PTGS-100W-CEL-OTS	Cellulose, Dual Shipper	2-8C	48	8	6	6	4.72
PTGS-100W-CEL-OTS	Cellulose, Dual Shipper	-30C to -10C	48	8	3	6	2.36
PTGS-257S-CEL-OTS	Cellulose, Flanged	2-8C	48	8.25	6.5	7.25	6.00
PTGS-257W-CEL-OTS	Cellulose, Flanged	2-8C	48	8.25	6.5	7.25	6.00
PTGS-269S-CEL-OTS	Cellulose, Flanged	2-8C	48	10.75	8	10.75	15.00
PTGS-269W-CEL-OTS	Cellulose, Flanged	2-8C	48	12.5	8	10.75	17.50
PTGS-272W-CEL	Cellulose, Flanged	2-25C	36	9.25	5	4.65	3.52
PTGS-282W-CEL	Cellulose, Flanged	2-25C	36	9.63	8.38	7.5	9.92
PTGS-309W-CEL	Cellulose, Flanged	2-25C	36	14.5	8	12.75	24.25
PTGS-324-CEL	Cellulose, Flanged	8C	36	5.56	5.56	2.25	1.06
PTGS-389-CEL	Cellulose, Flanged	8C	36	5.63	5.63	6.75	3.50
PTGS-398-CEL	Cellulose, Flanged	8C	36	11	10.5	4.63	8.91
PTGS-407-CEL	Cellulose, Flanged	8C	36	12.19	11.29	8.38	18.90
PTGS-548S-CEL	Cellulose, Flanged	2-8C	36	7	3	5	1.70
PTGS-548W-CEL	Cellulose, Flanged	2-8C	36	7	3	5	1.70
PTGS-561-CEL	Cellulose, Flanged	8C	84	10.5	5.5	2.25	2.10
PTGS-201W-CEL	Cellulose, Flanged	2-8C	36	12.25	2.5	8.75	4.40
PTGS-201S-CEL	Cellulose, Flanged	2-8C	36	11.75	2.5	8.75	4.20
PTGS-363S-CEL-OTS	Cellulose, Flanged	2-8C	48	16	10	11.375	29.50
PTGS-363W-CEL-OTS	Cellulose, Flanged	2-8C	48	16	10	11.375	29.50
PTGS-416S-CEL-OTS	Cellulose, Flanged	2-8C	48	7	3	5	1.70
PTGS-070504-C-A	Cotton	2-30 C	48	4.38	2.88	3.5	0.72
PTGS-080609	EPS	15- 30C	48	5.3125	0.9275	1.875	0.15
PTGS-090905	EPS	0.1-25C	48	9.375	5.75	5.125	4.53
PTGS-130911	EPS	2-25C	48	13.5	9	6.5	12.94

## Pre-Qualified Solutions

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Product	Insulation Type	Temp Range Qual	Time Duration	Payload Size (Total Product Size)			
				L	W	H	Volume (Liters)
PTGS-131006S	EPS	2-8	80	7.5	2.75	5.5	1.86
PTGS-131006S-MA	EPS	2-8	80	6	2.75	5.5	1.49
PTGS-131006W	EPS	2-8	80	7.25	2.75	5.5	1.49
PTGS-131006W-MA	EPS	2-8	80	6	2.75	5.5	1.49
PTGS-160909S	EPS	2-8C	48	15.81	7.38	4.94	9.45
PTGS-160909W	EPS	2-8C	48	15.81	7.38	4.94	9.45
PTGS-171108S	EPS	2-8	80	14.44	8.25	7.63	14.90
PTGS-171108W	EPS	2-8	80	12.62	6.388	7	9.25
PTGS-171516	EPS	≤ 20C	48	18.6875	16.6875	17.6875	90.39
PTGS-186S-EPS-OTS	EPS	15-25C	48	12.18	9.13	4.88	8.50
PTGS-186W-EPS-OTS	EPS	15-25C	48	12.18	9.13	4.88	8.50
PTGS-191208S	EPS	2-8 C	48	16.13	9.13	8.56	20.66
PTGS-191208W	EPS	2-8 C	48	14.13	7.13	8.25	13.62
PTGS-216S-EPS-OTS	EPS	2-8C	48	8.25	6.5	7.25	6.00
PTGS-216W-EPS-OTS	EPS	2-8C	48	8.25	6.5	7.25	6.00
PTGS-221215	EPS	0.1-25C	48	20.375	11.3125	10.0625	38.01
PTGS-222S-EPS-OTS	EPS	2-8C	48	10.75	8	10.75	15.00
PTGS-222W-EPS-OTS	EPS	2-8C	48	12.5	8	10.75	17.50
PTGS-229S-EPS-OTS	EPS	2-8C	48	16	10	11.375	29.50
PTGS-229W-EPS-OTS	EPS	2-8C	48	16	10	11.375	29.50
PTGS-040703	EPS/molded cooler	≤ 15C	24	9.75	12	3.75	7.19
PTGS-040705	EPS/molded cooler	≤ 15C	24	20.6	15.6	8.9	46.87
PTGS-040705	EPS/molded cooler	≤ 15C	96	6 stacks of 9.75' x 4' x 3.75' vials			14.38
PTGS-080606	EPS/molded cooler	≤ 15C	24	8	6	6.25	4.92
PTGS-080608	EPS/Molded cooler	≤ 20C	48	8	6	8.5	6.69
PTGS-100705	EPS/molded cooler	0-25 C	72	5.5	3.5	5	1.58
PTGS-120907M	EPS/Molded cooler	8C	48	8	6.25	2.25	1.84
PTGS-121006	EPS/molded cooler	0-25 C	72	12.625	6.875	5	7.11
PTGS-131208	EPS/molded cooler	0-25 C	72	13.125	6.875	5	7.39
PTGS-131209DIM	EPS/molded cooler	≤ 20C	48	12.75	8.438	5.938	10.47
PTGS-131308M	EPS/molded cooler	2-40 C	48	12	9	5	8.85
PTGS-171609DIM	EPS/molded cooler	≤ 20C	24	16.250	12.875	5.938	20.36
PTGS-352007-96	EPS/molded cooler	2-40C	48	33.75	18.75	3.5	36.29
PTGS-340S-PUR-OTS	PUR	2-8C	72	8	8	7	7.34
PTGS-340W-PUR-OTS	PUR	2-8C	72	8	8	7	7.34
PTGS-346S-PUR-OTS	PUR	2-8C	72	14.63	9.63	6.5	15.01
PTGS-346W-PUR-OTS	PUR	2-8C	72	14.63	9.63	6.5	15.01
PTGS-352S-PUR-OTS	PUR	2-8C	72	14.63	9.63	13.5	31.17
PTGS-352W-PUR-OTS	PUR	2-8C	72	14.63	9.63	13.5	31.17
PTGS-100906	VIP	≤ 15C / ≤ 50C	48	7	6	1.5	1.03
PTGS-351-VIP-OTS	VIP	2-8C	82	12.25	7.75	4.25	6.61
PTGS-355-VIP-OTS	VIP	2-8C	96	14.75	11.25	5.25	14.28
PTGS-359-VIP-OTS	VIP	2-8C	96	17.25	12.25	8.5	29.43