



Ripplepak

(Division of Uthane Research LTD)

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Ripplepak is a Canadian manufacturer in business since 1976.

We manufacture recyclable insulation inserts, fingerpacks and/or, gelpacs for the cold chain packaging market worldwide.

Our innovative work never stops at trying to improve our present cold-chain packs to suite markets dictations.

For pharmaceutical industry cold-chain application, we've designed and currently manufacture & supply the product called KITO BOX.

KITO BOX is a temperature-controlled recyclable packaging system, comprising a corrugated box, fibre inserts, and gel-packs/fingerpacks, made specially for the pharmaceutical and biomedical industries and designed to maintain a temperature control temperature range (2°C - 8°C) during storage and shipping.

Kito Box- Cold Chain Thermal Insulation

- Kito Box is a combination of Corrugated Box, Fibre liner and Gel Pac/Fingerpack for the thermal packaging and insulation, 100% recyclable, and hypoallergenic,
- Two piece set customized to fit into a box,
- The inserts protects the contents against external temperature penetration, and Finger Packs to maintain the desired temperature (2 °C to 8 °C),
- Custom thicknesses and lengths available to meet specific time criteria,
- The inserts cover all 6 sides within the carton,
- Helps maintain desired temperature within the package during shipping to destination so that the contents arrive fresh,
- Being plastic, it will not absorb condensation nor will it mold in a damp environment,
- Non-toxic and meets food grade requirements, Durable & Lightweight,
- Samples and Pricing available upon requests.

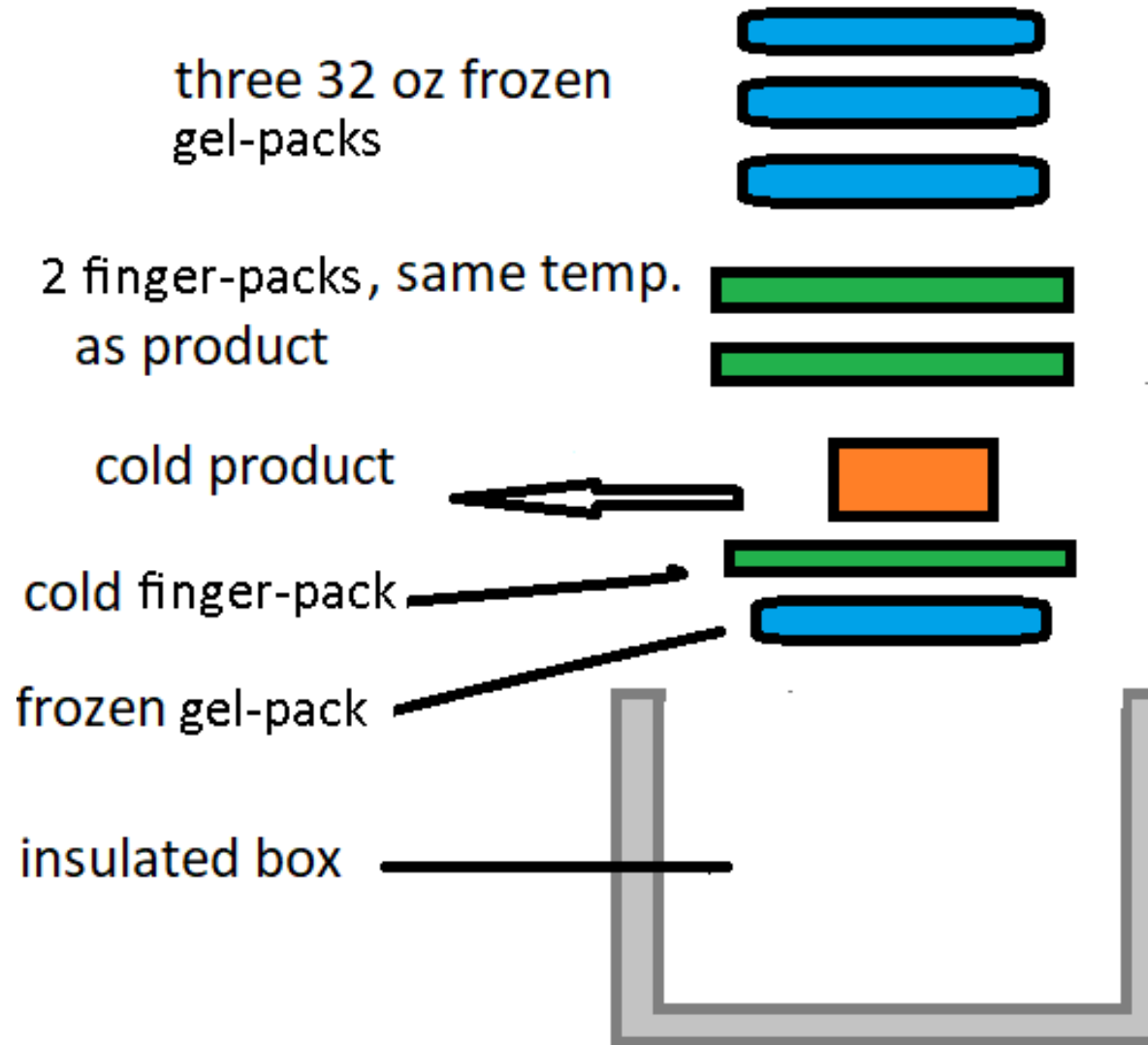


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The laboratory test report and the composition of the KITO BOX is shown below:

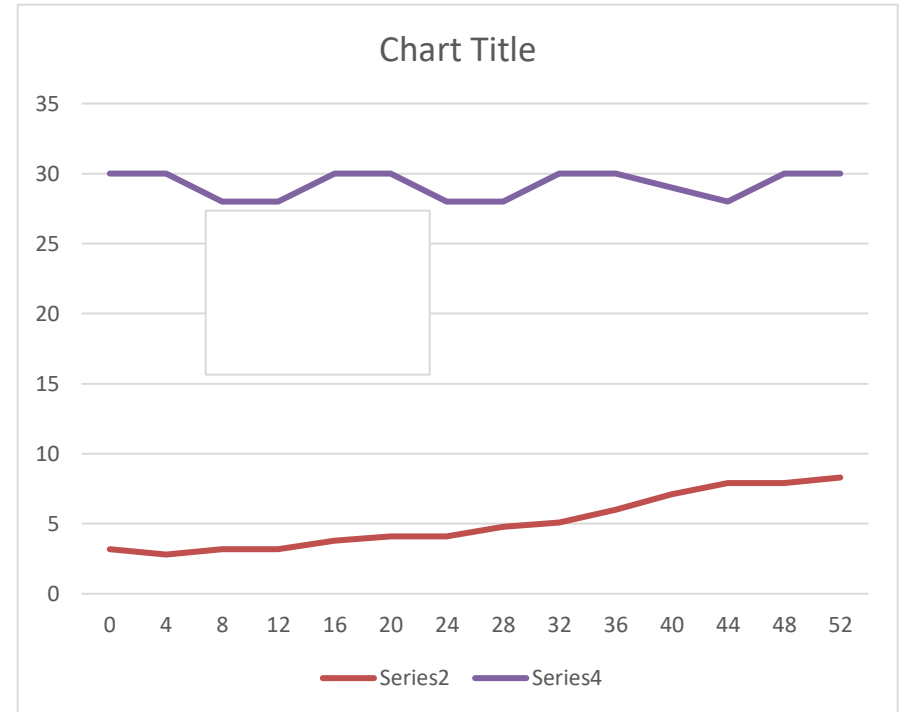
Design of the KITO BOX to maintain the temp. range: (2°C - 8°C)



KITO BOX: Lab testing report and Parameters

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Column1			
time in 4 hrs	temp. in box	outside temp	
0	3.2	30	
4	2.8	30	
8	3.2	28	
12	3.2	28	
16	3.8	30	
20	4.1	30	
24	4.1	28	
28	4.8	28	
32	5.1	30	
36	6	30	
40	7.1	29	
44	7.9	28	
48	7.9	30	
52	8.3	30	



Testing Parameter:

Box Size: 12x12x12inch
1.5" kito

Composition : box top
down

3x32 oz gelpacs: -25 degree

2xfingerpacks: +3 degree

product itself: +3 degree

1 finger-pack: +3 deg.

1x32 oz gel-pack: -25 deg.

Temperature in centigrade

series 4 = temp. Outside kito box
series 2= temp. of
product