

## **AST Inc.** (Kinki Transportation and Warehouse Co., Ltd.)

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We had a chance to meet with Mr. Wakabayashi, executive director of Ast Inc. (Kinki Transportation and Warehouse Co., Ltd.), and received an exclusive comment on the effect of Cool Therm/Super Therm.

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### Comment by Mr. Wakabayashi

#### *1. Understanding of Cool Therm's effect*

We used to use water sprinkler system to control the tank's temperature during summer. Ever since we started to use Cool Therm/Super Therm application as an alternative method, we have been satisfied with its performance in all aspects: temperature reduction effect, energy saving effect, maintenance cost cut effect and so on. We have assessment data to prove its effect, but it is only for internal use, and so we cannot provide it to you.

Our assessment data was introduced to Asahi Kasei Group, a monomer manufacture, and they have used Cool Therm/Super Therm in many of their plants (see reference list).

#### *2. The material stored in their tanks*

- ◆ Resin that requires low-temperature storage
- ◆ Monomer (styrene, acrylonitrile, MMA)
- ◆ Alcohol for brewing

#### *3. The need for the temperature control/low temperature storage*

The monomers start to polymerize at certain temperature, therefore tanks needs to be kept cool using cooling unit/heat exchanger. Tanks are exposed to direct sunshine during summer and so the amount of energy used to reduce the inside temperature was enormous. The Cool Therm/Super Therm application has been very successful in saving great amount of energy during summer.

(MMA monomer needs to be stored below 17 degrees C, and when it gets higher than 20 degrees C, the alarm will be on in order to prevent it from polymerization.)

# Asahi Kasei Corporation <http://www.asahi-kasei.co.jp/asahi/en/index.html>

Here is the list of references of Asahi Kasei Group with information on what is inside.

Date	Division	Size	Location	Material
July, 1997	Nagoya Plant	Store Tank	Nagoya	Alcohol
Feb, 1998	Nagoya Plant	Two Tanks	Aichi	Alcohol
July, 1998	New Port Base	750sq.m	Miyazaki	Acrylonitrile
Aug, 1998	Mizushima Plant	250sq.m	Okayama	MMA
Nov, 1998	Kyoto Plant	270sq.m	Kyoto	Alcohol
Apr, 1999	New Port Base	700sq.m	Miyazaki	MMA
Apr, 1999	Mizushima Plant	Two Tank	Okayama	Styrene
Aug, 1999	Suzuka Plant	One Tank	Mie	Styrene
Mar, 2000	Nagoya Administration Wing	700sq.m	Aichi	
Aug, 2000	Asahi Shuebel	1,600sq.m	Shiga	
Oct, 2000	AK Elastomer	One Tank	Oita	Acrylonitrile
Feb, 2001	Mizushima Plant	250sq.m	Okayama	MMA
Aug, 2001	Ohito Office	930sq.m	Shizuoka	Alcohol
Mar, 2002	Mizushima Plant	200sq.m	Okayama	MMA
Jan, 2003	Mizushima Plant	200sq.m	Okayama	MMA
Aug, 2003	Non Woven Material Division	1,800sq.m	Shiga	MMA
June,2004	Mizushima Plant	Tank 100sq.m	Okayama	
Sep, 2004	Asahi Kasei Chemicals Corporation	120sq.m	Kanagawa	
Sep, 2004	Mizushima Plant	Tank 330sq.m	Okayama	

See the Map in the next page for location.

**旭化成グループの技術と精神は、地域との一体化を大切にしています。**

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