

MODIFIED STARCH T-140 (INDUSTRIAL GRADE)

Description : T-140 is a cationic modified industrial starch derived from tapioca roots. The starch is modified and formulated specifically to improve its performance in paper and board manufacturing.

Application : T-140 is used as wet-end additives in recycling paper and paperboard manufacturing.

Function and Benefit : T-140 is added during wet-end process in the papermaking, to improve paper strength, water retention, drainage ability and fibre bonding, as well as to improve the production capacity and productivity. T-140 works well in acid, neutral and alkaline system, including system with high conductivity. With additional strength provided by the use of T-140, need of refining energy is also reduced. These functions make T-140 a perfect candidate for using in the production of recycling paper and paperboard.

Recommended Cooking Condition : 90°C for Conventional Method.
 110°C for Jet Cooking.

PHYSICAL AND CHEMICAL DATA

Degree of Substitution	0.040 - 0.045	
Nitrogen content	0.33 - 0.37	%
Dry solid content	Min. 86	%
pH (at 20 % solution)	5.5 - 7.5	
Conductivity	Max. 500	uS/cm
Viscosity	> 3,000	cP
Sieve test : pass through 40 mesh	Min. 98	%
Ash	Max. 0.5	%
Colour	White to off-white	
Odour	Odourless	

Packaging : 25-kg Open Mouth Multiwall Paperbag
 850-kg Circular Woven Jumbo Bag

Label Instruction : Product name, manufacturer's details, manufacturing date, expiry date, lot number and net weight.

Shelf Life & Storage Condition : 2-year shelf life. Keep closed packaging in dry and clean area at ambient temperature.

Do not store near aromatic material and ignition source.

Safety Information : Please see Material Safety Data Sheet (MSDS).

Head Office

Mc Andrew and Partners Co.,Ltd.

1/241 Venice Di iris Soi Watcharapol 2/7
 Watcharapol Road, Tharang, Bangkokhen,
 Bangkok, 10220, Thailand

Fax : +66 (0) 2103 - 6185

Tel : +66 (0) 2103 - 6184

Manufacturing Plant

Mc Andrew and Partners Co.,Ltd.

129, Moo 8, Chanthaburi-Sakao Road,
 Tubsai, Pongnamron,
 Chanthaburi, 22140, Thailand

Fax : +66 (0) 2103 - 6185

Tel : +66 (0) 2103 - 6184