

RAM RATNA INTERNATIONAL

(ISO 9001-2008)

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RATNAZYM HT

SUPER CONCENTRATED α AMYLASE

sizing is necessary for ensuring that yarns are adequately protected during weaving. Today's looms operate at very high speeds with an excessively high abrasive action on the yarn. To ensure high weaving efficiency, an ever increasing amount of size must be applied. Starch is the preferred sizing agent on cotton, cellulose and blends.

To ensure that fabric is well prepared for dyeing and further processing, all size applied during sizing must be removed adequately and uniformly. Removal of these polymers ensures good absorbency, and hence good dyeing and printing. Failure to do so can result in uneven dyeing, poor batch-to-batch shade reproducibility and problems during printing.

Benefits

Ratnazym HT is an effective amylase for the total removal of starch based sizing agents.

Benefits include:

- Effective solubilisation and removal of starches across broad PH and temperature ranges
- Excellent biodegradability
- No aggressive chemicals are needed, thus maintaining the tensile strength of the substrate
- Safe handling and operation
- Improved wet ability
- Improved fabric quality
- Reproducible performance and easy use

Performance

Ratnazym HT performs best under the following conditions.

	PH	Incubation temperature
Ratnazym HT	5.0 – 10.0	40 - 110°C

Dilution of product ratnazym HT

MATERIALS	% BY weight
Chlorine free DM water	84%
Sodium chloride	12.5% to 15%
Anti microbial (If required)	0.05% to 0.2%
Enzyme	2.0 to 2.5% (As per requirement)
Total	100

Procedure:

- Add the material in the orders listed above.
- Add gently between each step.
- Adjust PH 7 to 7.5 by diluted NaOH or diluted acetic acid
- Recheck the final PH after enzyme was added which should be 7 to 7.5

Storage in application

Enzymes gradually lose activity over time depending on the storage temperature. Cool conditions Are recommended. When stored in closed containers at 25 °c (77 °F) the product will maintain the declared activity for at least 3 months. Extended storage and / or adverse condition, including higher temperatures, may lead a higher dosage requirement.

The diluted product will be stable for 3 months at 25 °c(77 °F) and for 1 year at 5 °c(41 °F)

Notes: lower and higher concentration can also be worked out as per the customer's requirement.
