

## SUPER-COR<sup>®</sup> and SUPER-G<sup>™</sup> Tubular Modules Storage Instructions

### STORAGE INSTRUCTIONS

#### A. SHELF LIFE

The tubular modules leave the factory stored in glycerin. From the date of shipment, the module shelf life in the original packaging is one year. This assumes that the plastic end cap covers have not been removed or damaged and the conditions shown in Sections B&C are met.

#### B. HANDLING

1. The boxes should not be dropped or crushed.
2. The modules should be stored horizontally.

#### C. NEW MODULE STORAGE CONDITIONS

1. Keep the modules in their original packaging.
2. Store indoors out of direct sunlight.
3. Do not allow the modules to freeze and they should be kept at less than 40°C (104°F).
4. The preferred long-term storage temperature range is 10°C to 30°C (50 to 86°F), at relative humidity below 70%.

#### D. USED MODULE STORAGE SOLUTION

1. **Short-term shut-down (up to 24 hours):** Modules should be thoroughly cleaned and left in water at 5-25°C (41 to 77°F).
2. **Mid-term shut-down (up to 30 days):** Modules should be thoroughly cleaned. The vessels should then be filled with one of the following chemicals:
  - a. KOCHKLEEN<sup>®</sup> 180 (or equivalent) at pH 3-4
  - b. 2,000 ppm solution of sodium bisulfite at 5-25°C and pH 3-4.
3. **Long-term shut-down (30 days or longer):** Modules should be thoroughly cleaned. Follow the same procedure as the mid-term storage but replace the storage solution every 30 days.

#### E. POST-STORAGE CLEANING PROCEDURE

All modules should be cleaned according to KSS' recommended pre-startup procedures prior to restarting the system on production.

#### F. WATER QUALITY GUIDELINES

For water quality guidelines for storage solutions please refer to KSS Water Quality Guidelines for cleaning, diafiltration & storage.

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