

ENGINEERED ALLOY PRODUCTS

ZECOR® PACKING SUPPORT SYSTEM

Maximum open area for lowest gas pressure drop and highest efficiency in brick lined, ZeCor® or other alloy sulfuric acid plant towers.



Packing Support System (above)



Packing Support System (below)

The MECS® ZeCor® Alloy Packing Support System provides the optimum design for sulfuric acid plant towers. The MECS® design replaces both ceramic grid bars and grid blocks. While the ZeCor® Alloy Packing Support System is the natural choice for new alloy towers, it can also be installed in existing brick lined towers for a retrofit application. ZeCor®-Z corrosion resistant metal alloy is the primary material of construction employed in this design but other alloys such as ZeCor®-310M can also be used depending upon process conditions. The ZeCor® Alloy Packing Support System is supplied in pre-fabricated in sections, convenient for ease of handling and suitable for insertion through available man-ways. No welding is required during assembly. Installation schedules are significantly reduced compared to traditional ceramic domes and Aludur® beam construction. ZeCor® Alloy Packing Support Systems have additional distinct advantages over ceramic systems. They can absorb thermal and mechanical shocks and require much less handling – resulting in lower field labor expense.

FEATURES AND BENEFITS:

- Strong and light weight for easy handling and field assembly
- Absorbs thermal and mechanical shocks – unlike ceramic
- Available for new towers and field retrofits
- Welding is not required for assembly
- Sections sized for insertion through existing man-ways
- High quality shop fabricated sections minimize costly field labor expenses and expedite the installation schedule
- Custom designed for maximum tower efficiency, specific to your application
- Materials of construction selected for process conditions to eliminate corrosion



MECS®
ZECOR® ALLOY

Learn more at www.mecs.dupont.com



The miracles of science™

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ZeCor® packing supports are designed with more than 80% open flow area resulting in excellent gas distribution.

COMPARISON OF COMPETITIVE PACKING SUPPORT SYSTEMS

The chart below compares four tower packing support systems with respect to the open areas at the primary and secondary supports. The advantage of the MECS® ZeCor® Alloy Packing Support System is clear.

OPEN AREA AT PRIMARY SUPPORT	OPEN AREA AT PRIMARY/SECONDARY SUPPORT	TYPE OF SUPPORT SYSTEM	MECS ENGINEERED ALLOY PRODUCTS
80%	80%	ZECOR® ALLOY PACKING SUPPORT SYSTEM	
83%	59%	ALUDUR BEAMS ON 8" CENTERS	
77%	48%	ALUDUR BEAMS ON 6" CENTERS	
60%	37%	SELF SUPPORTING DOME	

Aludur® is a registered trademark of Saint-Gobain NorPro



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