

# CATALYST FOR SULFURIC ACID LP RINGS AND PELLETS



## FEATURES AND BENEFITS

- Proven conversion performance achieves low SO<sub>2</sub> emissions
- Uniform dust control for low fouling
- Structural durability enables low screening losses
- Thermally stable composition supports operation up to 650 °C (1200 °F)

### LP RINGS

- Smooth rings for low pressure drop
- Suitable for moderate velocity converters

### PELLETS

- Pellet shape for moderate pressure drop
- Ideal for low velocity converters

### APPLICATIONS:

**Rings:** LP-110 & LP-310 for all converter passes

**Pellets:** T-11 for all converter passes



## USE MECS® LP RINGS AND PELLET CATALYST FOR MODERATE TO LOW VELOCITY SULFURIC ACID CONVERTERS

An optimal catalyst design integrates the attributes of your sulfuric acid plant with the appropriate catalyst selection to satisfy your requirements for SO<sub>2</sub> emissions, production rate, and energy consumption. One size does not fit all; therefore, MECS, Inc. (MECS) provides custom catalyst designs to meet the unique needs of each client. Ring and pellet catalysts provide catalyst design solutions for plants with moderate to low velocity converters.

## MECS® LP RINGS PROVIDE RELIABLE CONVERSION PERFORMANCE

The MECS® LP ring catalysts provide the high activity, uniform dust handling, and low pressure drop characteristics desired by sulfuric acid plant operations and production personnel. Ring style catalyst has been dependable in the sulfuric acid industry for many years. The smooth ring shape is ideally suited for service in moderate velocity converters. The ring shape provides a significant pressure drop advantage over pellet shaped catalyst.

**MECS®**  
**CATALYST**

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## RELIABLE CONVERSION PERFORMANCE *(continued)*

The material composition and chemical formulation of MECS® LP-110 enables effective conversion for a multitude of gas conditions. From the harsh conditions encountered in the first catalyst bed to the high SO<sub>3</sub> and low O<sub>2</sub> conditions in the final bed, our proven LP-110 catalyst formulation provides reliable conversion in all converter passes. LP-110 catalyst has had a successful track record in meeting or exceeding performance expectations of customers in the sulfuric acid industry since 1981.

MECS® LP-310 catalyst has the same ring size and shape as LP-110, but its advanced formulation elevates its conversion performance. Compared to the same volume of LP-110, LP-310 catalyst can provide lower SO<sub>2</sub> emissions or increased acid production, thus making it ideally suited for volume-limited converters. The pressure drop and dust handling capabilities for LP-310 match those of LP-110.

## MECS® PELLET CATALYST IS IDEAL FOR LOW VELOCITY CONVERTERS

MECS® T-11 all-purpose pellet catalyst provides a balance of high activity formulation and geometry to achieve optimum conversion and uniform dust handling in all passes. For applications where low gas velocity converter vessels are used, our T-11 catalyst provides uniform gas distribution and maximum conversion performance. In addition to high activity, T-11 exhibits high mechanical strength resulting in low losses during screening.



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## PRODUCT HIGHLIGHTS

CATALYST	LP-110	LP-310	T-11
APPLICATION	ANY PASS	ANY PASS	ANY PASS
SHAPE	RING	RING	PELLET
NOMINAL DIAMETER	10 MM	10 MM	6 MM
FORMULATION	STANDARD	ADVANCED	STANDARD
IGNITION TEMP RANGE	360 °C (680 °F)	350 – 360 °C (662 – 680 °F)	360 °C (680 °F)



## MECS HAS THE EXPERIENCE AND TECHNICAL EXPERTISE YOU NEED

Our catalyst and process specialists will help you specify the best MECS® catalyst products to optimize throughput, energy efficiency and reliability for your converter passes. MECS® catalyst experts can assist you in specifying the proper catalyst type for your particular converter design. It all adds up... MECS has the complete technical expertise, proven high performance catalyst and overall sulfuric acid plant production knowledge to maximize value for your specific application.