MECS, Inc., is pleased to introduce the WavePak™ ceramic porcelain packing for sulfuric acid towers. WavePak™, was developed in conjunction with Norton Chemical Process Products Corporation.

WavePak™ delivers significant technological advantages over other types of packing available in the sulfuric acid industry today. WavePak™ offers superior internal gas distribution, higher capacities and optimum mass transfer efficiencies.

WavePak™ also offers a significant advantage in pressure drop savings over conventional saddles. The example below illustrates the savings in pressure drop realized by replacing 3” saddles with the WavepK™ packing in the final tower of a typical 2300 MTPD acid plant.

| Tower Dia. (ft) | 18 |
| Packing Depth (ft) | 11 |
| Pressure Drop (in-H₂O) with 3” Intalox saddles | 17 |
| Pressure Drop (in-H₂O) with WavePak™ | 9.0 |

WavePak™ Savings $80,000

* numbers assume $10,000 savings in operating costs/ in. of pressure drop
**Physical Data:**

Pressure Drop for 4 gpm/ft$^2$

![Graph](image)

Pressure Drop for 10 gpm/ft$^2$

![Graph](image)

Pressure Drop for 20 gpm/ft$^2$

![Graph](image)

**Packing Support:**

In MECS’ high efficiency alloy towers, the packing is supported directly by the alloy grating, eliminating the need for grid bars or partition rings that are characteristic for the conventional brick-lined towers. This further reduces the pressure drop across the packing bed.

![Image](image)

**Figure 1: Alloy Packing support system**

![Image](image)

**Figure 2: Alloy Packing grating**

WavePak™

26 pieces/ ft$^3$

41 pounds/ ft$^3$

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1 The data shown is for a typical air/water system. This pressure drop data is lower than actual performance in sulfuric acid towers and only indicates relative differences between packing types for a particular liquid/gas system.