



# FLEXICAT GOLD HS GV

Groo-V Shaped STYRENE CATALYST

## Product Bulletin

### Description

CRI Catalyst Company ("CRI") Styrene Catalyst **FLEXICAT GOLD HS** is a non-chromium containing iron oxide catalyst used for the dehydrogenation of ethylbenzene to styrene. In both isothermal and adiabatic commercial operation, **FLEXICAT GOLD HS** offers excellent activity along with excellent selectivity, low decline rate and excellent mechanical strength.

The Groo-V shape is designed to reduce the pressure drop across a bed of catalyst by 40% (vs. 3 mm CY) while maintaining the activity and selectivity of **FLEXICAT GOLD HS** 3 mm CY. The Groo-V shape could be particularly useful in the third bed of a reactor train.

### **PACKAGING AND AVAILABILITY**

CRI's styrene catalysts are available in 1500 kg (3306.9 lb) bulk bags.

Normally, the product is available for shipment 12 weeks from receipt of purchase order. Check with your CRI catalyst representative for specific product availability.

### TYPICAL PROPERTIES

Chemical	
Fe <sub>2</sub> O <sub>3</sub> , wt%	Balance
K <sub>2</sub> O, wt%	< 20%
Other Metal Oxides, wt%	< 35%
Physical	
Pellet Shape	Groo-V Cylinder
Pellet Size – diameter, mm (inches)	4 (0.16)
Apparent Bulk Density, kg/m <sup>3</sup> x 10 <sup>3</sup> (lb/ft <sup>3</sup> )	1.28 (80)
Crush Strength, kg/mm (lb/mm)	3.5 (7.7)

### **HEALTH, SAFETY, AND ENVIRONMENTAL PRECAUTIONS**

To ensure safe use of its products, CRI has evaluated the hazards of CRI **FLEXICAT GOLD HS** according to the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. Full attention to these hazards and to appropriate health, safety, and precautionary information is essential. Before handling, testing or using this catalyst, a Material Safety Data Sheet must be obtained by contacting a CRI catalyst representative.

### **ADDITIONAL INFORMATION**

All catalyst information supplied by CRI is considered accurate but is furnished with the express understanding that the customer receiving such information shall make its own assessments to determine suitability of such information for customer's particular purpose. All purchases of catalyst from CRI are subject to CRI's standard terms and conditions of sale (including CRI's product warranties) set forth in a sales proposal, sales contract, order acknowledgement, and/or bill of lading.

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