

Catalyst & Technology News

New Catalyst Technologies to Improve Reliability and Margins

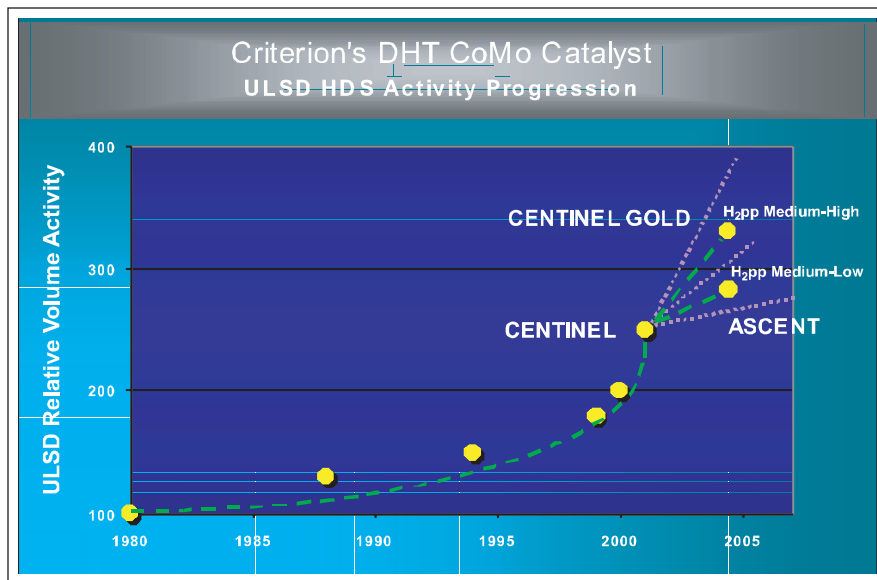
Producing ultra-low sulfur diesel (ULSD) cost effectively has become a top priority for many refiners. With a strong focus on production costs and profit margins, refiners are increasingly turning to new technology solutions that will allow them to meet their product demand while minimizing investment costs and operating expenses.

Criterion Catalysts & Technologies (Criterion) has recently developed two innovations, CENTINEL GOLD and ASCENT catalyst technologies, which can reduce refiners investment costs to achieve reliable ULSD operation and, at the same time, increase throughput and feedstock upgrade capability.

CENTINEL GOLD: Top Performance for Moderate-to-High Pressure ULSD Units

Criterion's CENTINEL GOLD Technology is a new line of hydrotreating catalysts that advances Criterion's successful CENTINEL Catalyst Technology, a unique manufacturing technology that yields higher activity catalysts for a wide range of applications. CENTINEL GOLD produces catalysts that provide significantly better ULSD performance due to improved metals utilization—perfect for distillate hydrotreating operations with moderate-to-high hydrogen partial pressures.

"CENTINEL GOLD can help refiners achieve new heights in ULSD production," said Gary Yepsen, vice president of marketing for Criterion.



Further Improvements in ULSD HDS Activity with CENTINEL GOLD and ASCENT Catalyst Technologies

"Because of the significant boost in denitrogenation (HDN) and desulfurization (HDS) activity, this technology can deliver more consistent product quality, longer runs, increased upgrading capability and higher production rates.

ASCENT: Higher Activity for Low-to-Moderate Pressure ULSD Units

Criterion's new ASCENT Technology produces catalysts with higher desulfurization activity for distillate hydrotreating operations with low-to-moderate hydrogen partial pressures. ASCENT delivers enhanced activity and stability across a wide range of feedstock properties. Because ASCENT catalysts can be regenerated with conventional technology, refiners can achieve ULSD specifications for multiple cycles with the same load of

catalyst with very little additional investment. This helps refiners reduce operating costs and meet waste reduction goals.

"Refiners who have lower pressure distillate units have had very limited options," said Yepsen. "Applying our ASCENT catalyst technology and operating know-how, we can help them discover new ways to maximize the value from their existing assets and lower total catalyst lifecycle costs."

Both products are available now from Criterion Catalysts & Technologies, the world's leading supplier of catalysts for Clean Fuels production. For more information, visit www.criterioncatalysts.com.

