

PROCESS DESCRIPTION:

CRITERION*
Naphtha Hydrotreating

Naphtha boiling range hydrocarbons are treated at elevated temperature and pressure in a hydrogen atmosphere with a catalyst to remove contaminants harmful to the downstream reforming catalyst. Normally, the reactor is a downflow design with one or two beds of catalyst.

The choice of catalyst depends on the source of the naphtha and the operating conditions. If the feed is all straight run and only sulphur removal is of concern, a cobalt-molybdenum (Co-Mo) on alumina catalyst, such as DC-185 is suggested. If the feed is all cracked naphtha or a blend of straight run and cracked naphtha, a nickel-molybdenum (Ni-Mo) on alumina catalyst, such as 424, DN-140, or DN-200 are suggested.

Catalysts promoted with either CoMo or NiMo usually come in several levels of activity. For maximum treating, maximum feed rate, or maximum energy savings; the highest activity catalyst should be used. For low severity operations or for heat integrated units that must operate at relatively high reactor temperatures, the use of a low activity catalyst is recommended.

ADDITIONAL INFORMATION

All catalyst information supplied by CRITERION 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 CRITERION are subject to CRITERION's standard terms and conditions of sale (including CRITERION's product warranties) set forth in a sales proposal, sales contract, order acknowledgement, and/or bill of lading.

HOUSTON:

16825 Northchase Drive, Suite 1000
Houston, Texas 77060-6029
Telephone: (1) 281- 874-2600
Telefax: (1) 281- 874-2641

CANADA:

5241 Calgary Trail Southbound
Centre 104, Suite # 810
Edmonton, Alberta T6H 5G8
Telephone: (1) 780-438-4188
Telefax: (1) 780-438-3473

DUBAI:

10th Floor, Dubai Convention Tower
Zabeel Area
Dubai, UAE
Telephone: +971 4 4405 4640
Telefax: +971 4 4405 4656

ENGLAND:

1650 Parkway
The Solent Business Park,
Whiteley, Fareham
Hampshire, PO15 7AH England
Telephone: (44) 1 489-881881
Telefax: (44) 1 489-881882

SINGAPORE:

298 Tiong Bahru Road
#07-03 Central Plaza
Singapore 168730
Telephone: (65) 6276-3627
Telefax: (65) 6276-7455

EMAIL: CriterionPublicAffairs@cri-criterion.com