

TECHNICAL BULLETIN:

Sulphiding of Tailgas Catalyst

1. Load catalyst in air.
- 2a. Purge System with N₂, or
- 2b. Run in-line burner near stoichiometric air/fuel ratio
3. Warm catalyst bed to 200°C (390°F) with burner. Care should be exercised that the provisions for adding hydrogen sulphide to the system are ready to operate, otherwise the exposure of the catalyst to hydrogen in the absence of hydrogen sulphide can result in irreversible damage to the catalyst. Also, impaired catalyst activity can result if the catalyst is exposed to hydrogen sulphide for extended periods without hydrogen being present.
4. Switch to substoichiometric conditions, adjust so gas entering reactor contains 2 - 10% H₂ + CO.
5. Bleed in H₂S (1 - 2%)
6. Ramp temperature to 315°C (600°F) "SLOWLY" (keep delta T below 25°C (50°F). Be sure exotherm is developing before heating past 450°F , then ramp temperature to 315°C (600°F) at about 15°C (25°F) per hour.
7. "Soak" the catalyst bed at 315°C (600°F) for 4 hours.
8. Cool reactor to less than 300°C (570°F) and Start.

HEALTH, SAFETY, AND ENVIRONMENTAL PRECAUTIONS

CRITERION hydrotreating catalysts are made from chemicals which span a range from being almost non-toxic to being potential carcinogens. Full attention to these hazards and to appropriate precautions and preventative measures is essential. Before ordering, testing, loading, or using these catalysts, be sure to obtain available information on health, safety, and environmental hazards, precautions and preventative measures from your CRITERION Catalysts Representative.

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

ENGLAND:

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

CANADA:

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

SINGAPORE:

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

DUBAI:

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

CHINA:

33/F., China World Tower 2
No.1 Jian Guo Men Wai Avenue,
Beijing, 100004 P.R. China
Tel: +86 10 65054501 Ext 2098
TeleFax: +86 10 65054084

EMAIL: CriterionPublicAffairs@cri-criterion.com