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HYDROPROCESSING CATALYSTS (HPC)

Hydroprocessing Catalysts (HPC)

Guard Grades

Hydrotreatment of Naphtha, Kerosene and Diesel

Hydrotreatment of VGO

Hydrotreatment of Residue

OFF-SITE Regeneration / Rejuvenation Service

Collaborative Work

- We provide technical proposal and operational support to meet a wide range of customer's requests including optimization of catalysts system and cost reduction solutions.
- We offer high quality catalysts based on a fine quality control.
- We lead the period through the development of the most advanced catalyst.
- We satisfy customer's comprehensive needs for petroleum refining technology with licensing business.

(Examples;

Increase of LCO feed rate in sulfur free diesel production by high active catalyst

Improvement of the performance of catalyst system by the effects of combined catalysts (STAX)

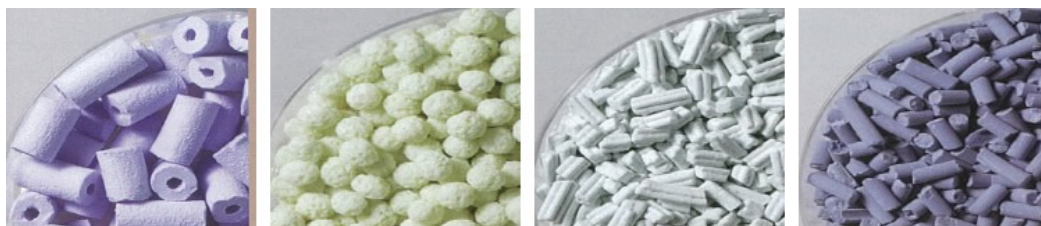
Improvement of product color in kerosene and diesel unit

Reduction of waste and cost by regeneration or rejuvenation of spent catalyst)

Guard Grades

Guard grades (Catch Scale, Iron, Silicon, Arsenic and etc.); KG Series

The guard grades restrain the delta pressure build-up of reactors by catching solids (scales) in feedstock oils, which are exfoliated rust of pipe or fouling of the heater or heat exchanger.



Hydrotreatment of Naphtha, Kerosene and Diesel

Hydrotreatment of Naphtha, Kerosene and Diesel KF 700 / 800 Series, Nebula

These catalysts demonstrate high performance for various applications and make it possible to operate with high operation economics or to extend operational cycle length.

They can improve your economics thanks to superior regeneration characteristics.



Selective HDS catalysts of FCC gasoline

Hydrotreatment of VGO

KF 800 / KF 900 Series

- HDS · HDN catalysts for VGO FCC pretreatment
- HDN · HDS catalysts for VGO Hydrocracking pretreatment
- Hydrocracking catalysts for VGO

Hydrotreatment of Residue

We provide appropriate catalysts for many kinds of heavy feedstock oils and applications

Hydrotreatment catalysts for residual (Fixed bed)

- Hydrodemetalization (HDM) catalysts: KFR 10 / KFR 20 Series
- Transition (HDM · HDS) : KFR 30 Series
- Hydrodesulfurization (HDS) catalysts: KFR 50 Series
- Hydrodesulfurization · Hydrodenitrogenation · CCR removal (HDS · HDN · HDCCR) catalysts : KFR 70 / KFR 90 Series



Hydrocracking catalysts for residual (Ebullated bed) KF 1300 Series

Nippon Ketjen 日本ケッチェン株式会社

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COMPANY OUTLINE

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Assistance on Process
Development through pilot testing
and product oil analyses
Commissioned Commercial
Catalyst Manufacturing

MANAGEMENT SYSTEM

RESEARCH & DEVELOPMENT

Application Research
Development
Joint Research with External
Organizations

TOTAL QUALITY MANAGEMENT

Quality Management
Integrated Management System

TOTAL SOLUTION

Technical Proposals & Services
OFF-SITE Regeneration / Rejuvenation
Service
Hydroprocessing Alliance

