

Boroflex™

Fluid Catalytic Cracking (FCC) Catalyst for upgrading highly contaminated residue feeds

Boroflex uses the latest in metals passivation technology along with a coke-selective matrix to provide superior bottoms upgrading for residue feedstocks.

Technology

Boroflex is based upon BASF's multi-award-winning **Boron Based Technology (BBT)**. BBT uses the chemistry of boron to provide maximum metals tolerance for superior yields.

BASF's **Boroflex** combines our coke-selective matrix, optimum pore structure, and metals passivation. The selective matrix and optimized porosity allows for high bottoms conversion of heavy residue (resid) feeds. The metals passivation technology handles even the harshest contamination of nickel and vanadium for low hydrogen and coke.

Boroflex is the right choice for units wanting to maximize valuable liquid products, including distillate yield, while reducing bottoms yield. The novel BBT metals passivation technology allows the processing of even the dirtiest feedstocks.

Applications

Boroflex is designed for FCC units desiring bottoms conversion for higher yields of valuable liquid products.

Boroflex is ideally suited for use in the following situations:

- units processing resid feedstocks looking to reduce slurry yield
- units wanting higher yields of valuable liquid products of LPG (liquefied petroleum gas) olefins, gasoline and distillate
- units with severe metals contamination concerns targeting lower hydrogen and coke

Typical Properties

Chemical Composition

Al ₂ O ₃ , wt%	40-55
--------------------------------------	-------

Na ₂ O, wt%	0.2-0.35
------------------------	----------

Surface Area, m ² /g	200-330
---------------------------------	---------

Density

ABD, g cm ⁻³	0.65-0.85
-------------------------	-----------

Particle size*

APS, μm	75
---------	----

0-40, %	12
---------	----

* Catalyst properties are customized to optimize performance depending on individual FCC unit requirements

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

Americas

BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA

Asia Pacific

BASF South East Asia Pte Ltd
7 Temasek Boulevard
#35-01 Suntec Tower One
Singapore 038987

Europe, Middle East, Africa

BASF SE
67056 Ludwigshafen, Germany

Global Email

refining-catalysts@basf.com

Boroflex™ is a BASF trademark.

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH.

Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2018 BASF

BF-10598