

# Sofnolime<sup>®</sup> RG 3mm

Non indicating. Size range 3mm extrudates



A unique material developed specifically for the removal of carbon dioxide, hydrogen sulphide and other acidic contaminant from hydrocarbon process streams.

## Applications

Sofnolime<sup>®</sup> RG extrudates are used for the removal of carbon dioxide, hydrogen sulphide and other acidic contaminants from hydrocarbon process streams. It is intended for use in 'wet' and mixed phase gas/hydrocarbon streams including ethylene, propylene and LPG applications. It will also remove carbonyl sulphide (COS) and low molecular weight mercaptans. Please contact your local representative for an assessment of your application.

## Properties

Total Alkali Metal Hydroxide (as NaOH) 2.0 - 3.5% (nominal range)

## Particle size

Retained on 6.70mm screen (0.265" US)	nil %
Retained on 4.75mm screen (4 US)	10.0% Max
Retained on 2.36mm screen (8 US)	Balance
Retained on 0.425mm screen (40 US)	10.0% Max
Passing 0.425mm screen (40 US)	1.0% Max
H <sub>2</sub> S Activity g/kg	> 10.0 Min
5000ppm H <sub>2</sub> S in air at 20°C and 50% RH passed downwards through bed of 30mm diameter and 50mm height at flow rate of 1.0 litres per min.	

## Colour Indicator

Sofnolime<sup>®</sup> RG extrudates contain no colour indicator.

## Availability

Sofnolime<sup>®</sup> RG extrudates are available in 750kg/1650lb polypropylene bags, 150 kg/330lb drums

## How it works

Sofnolime<sup>®</sup> removes carbon dioxide (and other acidic contaminants) from gas streams via an exothermic, water facilitated, base catalysed chemical reaction. The Sofnolime<sup>®</sup> contains a carefully controlled level of water which aids the reaction. Water is also formed as a by-product of the reaction. The reaction proceeds in 3 stages:-

(i) Reaction at aqueous layer



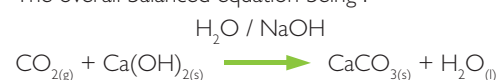
(ii) Bicarbonate formation



(iii) Decomposition/regeneration of NaOH catalyst



The overall balanced equation being :-



## Quality

Molecular Products Ltd's aim is to manufacture chemical products which satisfy completely the needs of our customers. All products are rigorously tested to ensure conformance to the specification. Our activities comply to the requirements of ISO9001:2008.

## Molecular Products Limited

Mill End, Thaxted, Essex  
CM6 2LT United Kingdom

T +44 (0)1371 830676  
F +44 (0)1371 830998

E sales@molprod.com  
W www.molecularproducts.com