

Material Highlight:

CURON 140 XL HS GM CURON / FLUCON 140 XL HS

Energy & Chemicals

Oil refineries, the chemical industry and the chemical waste processing industry demand high performance refractory products. Gouda Refractories has the products to match the strict specifications for all critical equipment.

Fluidized Catalytic Cracking is an extremely complex process and operators encounter numerous costly and difficult problems. For Flue gas / Transfer lines and ducts, the challenge is to develop an insulating castable with abrasion resistant capabilities. Gouda Refractories can now add to its FCC material series a new castable with maximum density of 100 lbs/ft³ (1.600 kg/m³) and a maximum Erosion Loss (EL) of 20 CC according to ASTM C704/C704M.



CURON 140 XL HS

CCS
25 MPa

Erosion
≤ 16 cc

Density
1.600
kg/m³

Available are:

- **CURON 140 XL HS**, a conventional Cast / Vibra Casting (VC) castable.
This material is a low density erosion resistant refractory Cast / Vibration material with very good workability properties.
- **CURON 140 XL HS GM**, a conventional Gunning grade material.
This material has low rebound losses, is low in dust and has excellent gunning characteristics.
- **FLUCON 140 XL HS**, a self-flowing castable.
This self-flowing material can help with casting the most complex parts of a line. A 90° elbow can successfully, without any vibration support, be casted.

With these materials designers and engineers are able to reduce the casing temperatures and therefore the amount of metal stress and limit expansions.

Technical Background

The strength of the Gouda Refractories' FCC material series is the result of over 40 years of field installation experiences from our services companies in combination with the high standard of our R&D department. The input from field executions by working under severe and extreme conditions, in combination with a high QA standard, makes our materials to belong to the top segment in the industry. Experiences from the field are directly communicated back to R&D and included in our development process.

CURON / FLUCON 140 XL HS advantages:

- Long workability
- Easy installation
- Excellent flowing characteristics
- Low density
- Low insulating values

CURON 140 XL HS GM advantages:

- Low rebound
- Low dust
- Easy installation
- Low density
- Low insulating values



Material Properties				
Properties after firing to 815 °C		CURON 140 XL HS	CURON 140 XL HS GM	FLUCON 140 XL HS
Bulk Density	kg/m³	> 1.550	> 1.600	> 1.550
Erosion Loss	cc	< 16	< 20	< 16
Cold Crushing Strength	MPa	25	20	35
Permanent Linear Change Dried-to-Fired [%]	%	0 to -0.3	0 to -0.3	0 to -0.3

Above values are for information purposes only. Datasheets are available upon request.

