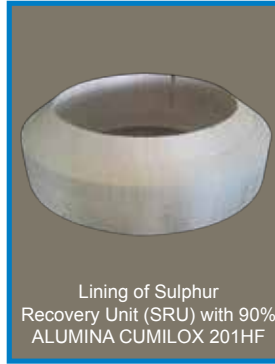
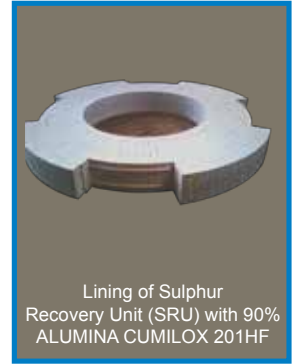


# REFRACTORIES FOR CHEMICAL PROCESS INDUSTRIES

APPLICATION GUIDELINE FOR SULPHUR RECOVERY UNIT	CUMILAG 26	CUMILAG 28	CUMILAG 30	CUMILOX 201 HF	CUMILITE 90	CUMILOX 101 HF	CARBOLITE 23A	CARBOLITE 25A	CARBOLITE 26A	CUMICRETE CA 66	CUMICRETE CA 58	KAOCRETE HPM 90-TR
Inlet Nozzle												
Checker Wall												
Waste Heat Boiler Tubesheet												
Burner Block												
Main Body												
Transition Section												



Lining of Sulphur Recovery Unit (SRU) with 90% ALUMINA CUMILOX 201HF



Lining of Sulphur Recovery Unit (SRU) with 90% ALUMINA CUMILOX 201HF

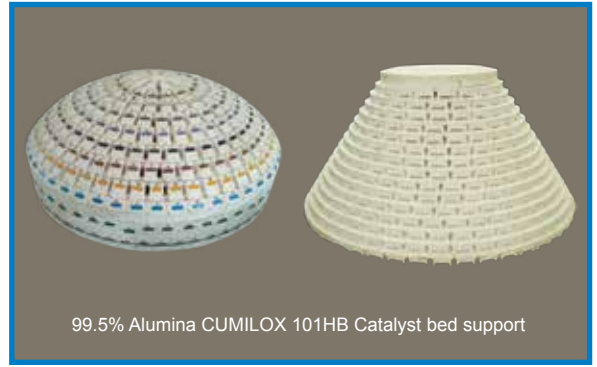
APPLICATION GUIDELINE FOR SYNGAS INDUSTRY	CUMILOX 101HB	CUMILITE W	CUMILAG 32	CUMILAG B101	CUMICRETE CA 66	CUMICRETE CA 58	CUMICRETE CA 60	CUMIHICAST 60
<b>Dutch Shell Reactor</b>								
Hot Face								
Reactor Bottom								
Backup Insulation								
Thermocouple Support Shapes								
<b>Texaco Reactor</b>								
Hot Face								
Insulation Layer One								
Insulation Layer Two								
<b>Primary Steam Reformer</b>								
<b>Secondary Reformer</b>								
Hot Face								
Backup Insulation								
Catalyst Bed Support Dome								
Target Tile								
Hydrogen Transfer Line								

## FLUID CATALYTIC CRACKING UNIT

CUMI Super Refractories offers speciality insulation castables, high abrasion resistance castable/thumping mass for FCCU application.

## FIRED HEATERS

CUMI Super Refractories offers insulation firebricks and PCPF burner block for fired heaters



99.5% Alumina CUMILOX 101HB Catalyst bed support

Refractories for Carbon Black manufacturing require high temperature withstanding capability, high erosion resistance and thermal shock resistance. CUMI offer high purity alumina products for Carbon Black industry solutions along with technical expertise.

APPLICATION GUIDELINE FOR CARBON BLACK	CUMILOX 101HB	CUMILOX 10 CR	CUMICRETE CA 66	CUMICRETE CA 58	CUMILOX 201 HF	CUMILOX AZ 95	CUMILITE WHF	CUMILITE 66 A SPL	CUMILAG B 201	CUMI HICAST SUPER	CUMI HICAST EXTRA	CUMI HICAST 70	CUMI HIGH CAST 95	CUMICRETE CK 14	CUMICRETE CK 15	CUMICRETE CII 104	CUMICRETE C9 G	CUMICRETE CK 888	CUMICRETE CIV 650	
<b>Hard Black High Temperature Reactor ~1850°C</b>																				
Head Section-working Lining																				
Head Section-backup Lining																				
Head Section-insulation																				
Choke -section-working Lining																				
Choke -section-backup Lining																				
Choke -section-insulation																				
Cooler																				
Breaching Section-working Lining																				
Breaching Section-insulation																				
<b>Hard Black Conventional Reactor 1650°C and above</b>																				
Working Lining																				
Quench Section																				
Breaching Section-working Lining																				
Breaching Section-backup																				
<b>Hard Black Conventional Reactor 1600°C</b>																				
Working Lining																				
Backup Lining and End Portion																				
<b>Hard Black Conventional Reactor 1550°C</b>																				
Working Lining																				
Backup Lining and End Portion																				
<b>Soft Black Reactor 1600 - 1650°C</b>																				
Working Lining																				
Intermediate Lining																				
Backup Lining																				
End Portion																				
<b>Soft Black Reactor 1500 - 1600°C</b>																				
Working Lining																				
Backup Lining																				
End Portion																				
<b>Boiler Combuster</b>																				
Working Lining																				
Backup Lining																				
Insulation Lining																				



99.5% Alumina CUMILOX 101 HB Choke Section



Tangential Burner Entry Ring