



# CLAYRAC™ F41

## SIZED CHAMOTTE FOR INVESTMENT CASTING

CLAYRAC F41 is an Alumino-Silicate, produced by calcination in rotary kiln of kaolinic clays from the Charentes basin (South West of France).

### APPLICATION

The product range "CLAYRAC F" is specifically designed for the production of ceramic moulds for Investment Casting, where it can be used as stucco or flour in both alcohol or water based processes.

CHEMICAL ANALYSIS (%)	TYPICAL	SPECIFICATIONS
Al <sub>2</sub> O <sub>3</sub>	41,0	39,5 Min
SiO <sub>2</sub>	54,0	
Fe <sub>2</sub> O <sub>3</sub>	1,7	2,5 Max
TiO <sub>2</sub>	1,9	2,8 Max
K <sub>2</sub> O	0,6	1,0 Max
Na <sub>2</sub> O	0,1	
CaO + MgO	0,4	1,0 Max

### MINERALOGY

% Mullite	61
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### PHYSICAL PROPERTIES

Apparent density	2,45
Open porosity (%)	7,0
Thermal expansion coefficient	6,10 <sup>-6</sup> K <sup>-1</sup>
pH	6 - 8

### REFRACTORINESS

°C	1750
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### PARTICLE SIZE DISTRIBUTION

STUCCO GRADES (NON CUMULATIVE %)						
SIEVE mm	0,1/0,3 mm	0,1/0,4 mm	0,2/0,5 mm	0,3/0,8 mm	0,5/1,0 mm	1,0/0,2 mm
> 2,000						0 - 5
> 1,000					0 - 10	90 - 100
> 0,800				0 - 5	14 - 54	
> 0,500			0 - 5	18 - 78	42 - 82	
> 0,400		0 - 5			0 - 4	
> 0,355	0 - 5					
> 0,315				18 - 78		
> 0,200			90 - 100			
> 0,100	90 - 100	90 - 100				
> 0,050	0 - 5	0 - 5	0 - 5	0 - 5	0 - 1	0 - 5
< 0,050	0 - 0,1	0 - 0,1	0 - 0,1	0 - 0,1	0 - 0,1	0 - 0,1

FLOURS (NON CUMULATIVE %)						
SIEVE mm	P 200 *	P 140 *				
> 0,100	1 - 3	4 - 8				
> 0,080	0 - 3	1 - 6				
< 0,050	11 - 22	10 - 26				
> 0,050	75 - 85	65 - 80				

(\*) Pxxx where xxx does represent the top cut in mesh.  
PSD is measured using a dry sieve shaker.

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