

PRODUCT DEFINITION

CLAYRAC F 41 is an Alumino-Silicate, produced by calcination in rotary kiln of kaolinic clays from the Charentes basin (South West France).

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	
Al ₂ O ₃	41,0	min 39,5
SiO ₂	54,0	
Fe ₂ O ₃	1,7	max 2,5
TiO ₂	1,9	max 2,8
K ₂ O	0,6	max 1,0
Na ₂ O	0,1	
CaO + MgO	0,4	max 1,0

PHYSICAL PROPERTIES

Apparent density	2,45
Open porosity	7,0 %
Refractoriness	1750 °C
Thermal expansion coefficient	6.10 ⁻⁶ K ⁻¹
pH	6 – 8

MAIN MINERALOGICAL PHASE

Mullite : 61 %

PARTICLE SIZE DISTRIBUTION

Sieve in mm	STUCCO GRADES (non-cumulative %)					
	D-0,1/0,3	D-0,1/0,4	D-0,2/0,5	D-0,3/0,8	D-0,5/1,0	D-1,0/2,0
> 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

Sieve in mm	FLOURS (cumulative %)	
	P 200	P 140
> 0,100	1 – 3	4 – 8
> 0,080	2 – 5	7 – 12
> 0,050	15 – 25	20 – 35

The technical details contained in this data sheet are given in all good faith for indicative purposes only, and do not constitute a guarantee by AGS Minéraux. Sales are in accordance with our "Conditions of Sale", copies of which will be supplied on request.

CLAYRAC F 41 is available for dispatch from the production site located in Clérac (F-17270), packed in 25 kg paper bags (one-way pallet of 1200 kg) and big-bags of 1000 kg. Exchangeable euro pallets available upon request.