

Modicast S4

Fully refined

CHEMICAL ANALYSIS (%)	Min.	Value	Max.
SiO ₂	62.6	63.4	64.1
Al ₂ O ₃		22.5	
Fe ₂ O ₃	1.70	2.10	2.50
TiO ₂		0.74	
CaO		0.22	
MgO		0.59	
K ₂ O	2.00	2.10	2.20
Na ₂ O		0.20	
LOI	8.2	8.6	9.0

RESIDUE – WET sieve (mass %)

> 75 µm			1.00
> 45 µm		3.50	

PARTICLE SIZE ANALYSIS–Sedigraph (cumulative mass %)

< 5 µm	82	86	90
< 2 µm	65	69	73
< 1 µm	53	57	61
< 0.5 µm	42	46	50

PHYSICAL PROPERTIES

Methylene Blue Index (mg.g ⁻¹)	36.0	39.0	42.0
Water soluble salts(ppm)		550	
Water soluble sulphate(ppm)	150	300	450
Moisture content (%)			20.0

CASTING DATA

Deflocculant demand (wt%)	0.30	0.45	0.60
Cast rate (mm. in 30 minutes)	4.5	5.5	6.5

MODULUS OF RUPTURE (as 100% clay)

Dried at 110 °C (Kgf.cm ⁻²)	72.0	79.5	87.0
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FIRED PROPERTIES

	1240°C		
L*		66.68	
a*		1.49	
b*		13.36	
Contraction (%)		9.4	
Water absorption (%)		0.16	

PRODUCT FORM & STANDARD PACKAGING

Shredded, Noodle or Cake
Big bag, 50 kg bags, bulk

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Max, Min values are specified properties.
All other values are typical. The data quoted are determined by the use of Imerys Standard Test Methods, copies of which will be supplied on request. Every precaution is taken in production to ensure the products conform to our published data. Since the products are based on naturally occurring materials, we reserve the right to change these data should it become necessary. Sales are in accordance with our "Conditions of Sales" copies of which will be supplied on request.