



We recommend the use of BioKeram to **optimise your production efficiency.**

COST SAVINGS

- From € 3 / T = \$ 4 / T for the process part
- In replacement of barium carbonate, you can save € 1,5 / T = \$ 2 / T

3 REASONS TO USE BIOKERAM

- 1) 10% reduction of moisture content
- 2) Increase of mechanical strength of the bricks
- 3) Neutralisation of soluble salts

WHICH LEADS TO

- 1) Reduction of drying energy cost equals to 10% moisture reduction
- 2) 50% less breakage
- 3) Barium Carbonate replacement

BENEFITS

GREEN/WET

- Flexibility to use less plastic clays
- Increased extrusion rate
- Increased green strength
- Improved clay workability
- Increased life of wearing parts
- Reduced energy consumption
- Reduced need for die lubrication
- Reduced waste
- Reduced water

DRY

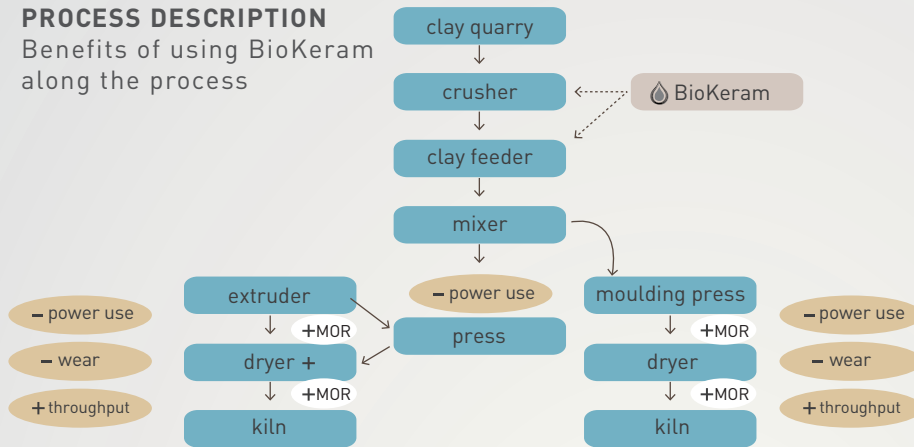
- Elimination of salt scum
- Faster and safer drying
- Increased body strength
- Reduced breakage
- Reduced chipping
- Reduced cracking
- Reduced handling damage



STRUCTURAL

PROCESS DESCRIPTION

Benefits of using BioKeram along the process

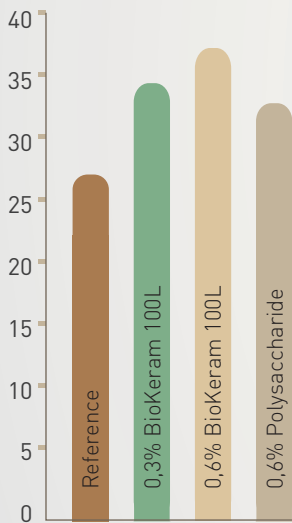


ANTI-SCUMMING PROPERTIES OF BIOKERAM



MECHANICAL STRENGTH

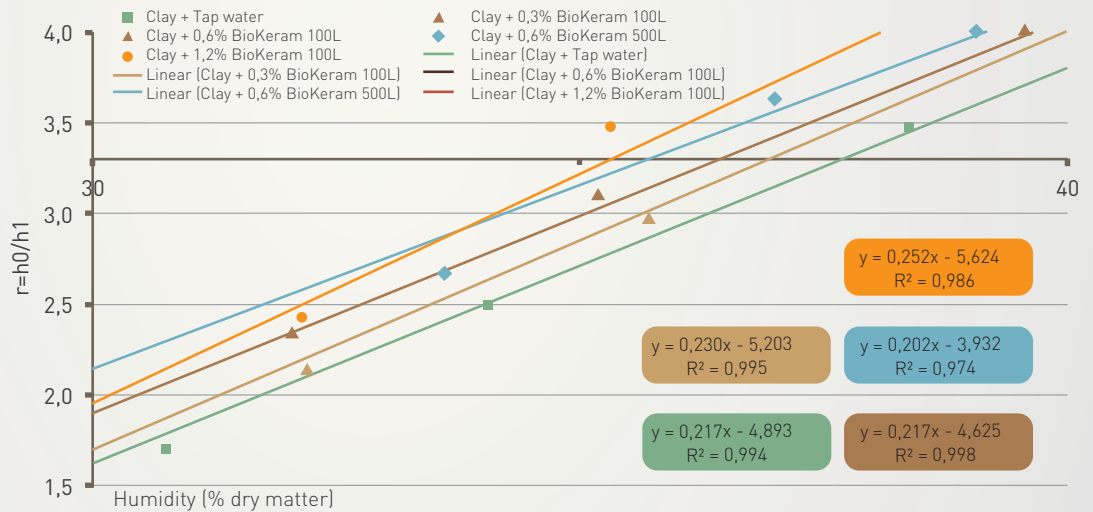
Sandy Clay
Dry Flexural Strength
(Kg/cm²)



FLEXIBILITY OF THE CLAY WITH BIOKERAM

Red Plastic Clay. Pfefferkorn coefficient of plasticity

	R= 3,3	Clay + Tap Water	37,7
	R= 3,3	Clay + 0,3% BioKeram 100L	37,0
	R= 3,3	Clay + 0,6% BioKeram 100L	36,4
	R= 3,3	Clay + 0,6% BioKeram 500L	35,7
	R= 3,3	Clay + 1,2% BioKeram 100L	35,3



PERFORMANCE OF BIOKERAM ON DIFFERENT TYPES OF BODY MIX

TYPE OF BODY MIX	INCREASED EXTRUSION RATE	REDUCED POWER CONSUMPTION	REDUCED WATER OF PLASTICITY	INCREASED GREEN STRENGTH	INCREASED DRY STRENGTH
Alluvial, fatty clay	2,5%	10,9%	1,6%	19,4%	21,9%
Carboniferous clay	42,0%	21,8%	1,0%	32,1%	9,6%
Sandy, short clay	12,5%	45,1%	1,6%	40,4%	46,6%
Highly plastic clay	9,8%	12,7%	0,5%	13,8%	12,9%
Clay/shale blend	8,7%	13,8%	0,6%	15,5%	189,0%
Coal measure shale	16,5%	25,8%	1,7%	48,0%	61,6%