Industrial Solutions

polysius® activated clay





Use more clay, less clinker

Reduce the clinker factor down to 50 percent, save money, emit less CO₂.

Tough market conditions are leading more cement producers to reduce the clinker factor and volume of supplementary cementitious materials, such as fly ash, in their product. Calcined clay offers a sustainable and cost-effective alternative. With its innovative polysius® activated clay technology, thyssenkrupp provides a one-stop solution for raw material substitution. This technology supports substitute fuel rates of up to 100% and – if desired, achieves a traditional grey color of calcined clay cement.



Benefits

- 01 Reduce the clinker factor down to 50%
- 02 Emit 70% less CO₂ per ton with clay (180 kg CO₂ per ton) in comparison to standard cement production with clinker (790 kg CO₂ per ton)
- 03 Improve cement quality and performance with activated clay components
- 04 Production capacity increases at low capex at minimum production interruption
- 05 Reduce energy costs by up to 40% thanks to lower heating temperatures and short retention times
- O6 Substitute increasingly scarce or expensive supplementary cementitious materials
- 07 Become more self-sufficient in terms of raw materials, particularly in regions where clinker limestone and clinker imports are costly
- 08 Continue to enjoy a gray product, if desired
- 09 Benefit from new business opportunities with the refinement of residual materials
- Substitute fuels up to 100% with conventional, coarse and low-quality fuels
- 11 Spend less on CO₂ emission certificates