

Description

CAT is a synthetic aggregate based on calcium aluminates with controlled granulometry. The combination of CAT and Electroland cement (CAC) is used to manufacture mortars and concretes with resistance to temperature and thermal shock cycles (up to 1,300°C), very high initial MECHANICAL strengths, and long-term durability due to its high resistance to abrasion. Additionally, it achieves excellent durability against bacteriological and chemical corrosion (Sulphates, chlorides, and acids up to pH>3.5).

Recommended for

- Manufacture dense concretes with high resistance to chemical corrosion, abrasion, temperature (non-reducing atmospheres), and ultra-rapid hardening.
- Manufacture self-leveling mortars and leveling compounds in construction chemistry.

Chemical, mineralogical, and granulometric features

Features	Typical value
Aluminium oxide (% Al ₂ O ₃)	36 - 43
Calcium oxide (% CaO)	36 - 41
Silicon oxide (% SiO ₂)	3 - 5
Main mineralogical phase	Calcium monoaluminate
Fine CAT aggregate size (mm)	0-3
Coarse CAT aggregate size (mm)	3-10

Applications

- Petrochemical, steel, metallurgical, cement, incineration, and ceramic industries.
- Food industry, coating in sewage treatment plants, sewers, and pipelines.
- Protective mortars in hydraulic works.
- Self-leveling mortars and leveling compounds for industrial floors, car parks, commercial areas, etc.

Shipping and Storage

- Available in Big-bags.
- Big-bags must be stored on pallets, in dry and ventilated places.

Worksite and service precautions

- Civil concretes designed with CAT and Electroland cement (CAC) must be manufactured using a maximum water/ cement ratio of 0.40, with a minimum cement content of 400 kg/m³.
- Placement can be done by pouring or shotcreting. The concrete must be vibrated and cured from 3 hours up to the first 24 hours.
- For refractory concretes, the heating rate of the first ramp (up to 500°C) should not exceed 50°C/h.
- In construction chemical mortars, CAT is used as another aggregate according to current regulations.

If you need more information, please request it from us. AENOR certifies the compliance of this cement with the specifications of the UNE-EN 197-1 standard (common cements), evaluating it according to the established regulations in the Specific Regulation RP 15.01 (N Mark). Therefore, it also has the corresponding CE conformity certificate. This cement contains a chromium (VI) reducing agent. AENOR also certifies compliance with the regulatory limit for the content of Cr (VI) soluble in water according to the UNE-EN 196-10 standard.

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