



Techmo Adi3tek®

Chemical inhibitor formulated to eliminate corrosion and build up in high pressure steam boilers as well as to inhibit Crust and Ring formation in cement and lime calcining lines

PRODUCT DESCRIPTION

Techmo Adi3tek® is a liquid, beige color suspension, composed of a proprietary blend of Inorganic anti-caking compounds, surfactants, stabilizers and anti-polymerizing agents.

Techmo Adi3tek® competes with and effectively re-directs Sulfur-generated secondary reactions to create higher melting point compounds, which easily disintegrate from high pressure steam boilers, preheater, pre-calciner and cement kiln walls, quickly improving equipment's heat transfer efficiency and performance.

PRODUCT DESCRIPTION:

Beige color suspension with an odor similar to damp clay

Viscosity @ 37.8° F (100°C) 180-210

Density @ 25°C 1.2-1.6 Kg/liter

• Viscosidad @ 37.8° F (100°C) 180-210

• Densidad @ 25°C 1.2-1.6 Kg/litro

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|------------------------|---------|-------|
| • Anticaking Agents | (w/w) % | 45-50 |
| • Surfactants | (w/w) % | 8-10 |
| • Dispersants | (w/w) % | 10-15 |
| • Antisediment Agents | (w/w) % | 15-20 |
| • Combustion Catalysts | (w/w) % | 10-15 |
| • Ignition Temperature | (°C) | 65-80 |
| • Ashes | (w/w) % | 53-55 |
| • Lead | ppm | < 2 |
| • Chromium | ppm | < 2 |
| • Sodium | (w/w) % | 0.53 |

APPLICATION

Regardless of solid fuel particle size, Techmo Adi3tek® should be thoroughly incorporated into the fossil or alternate fuel to assure an effective reaction at the molecular level in the combustion chamber.



Techmo Adi3tek® is made of a proprietary blend of Anti-caking, Surfactant, Dispersing and Stabilizing Agents, as well as polymer formation inhibitors and fuel enhancing catalysts.

SAFETY REGULATIONS

Techmo Adi3tek® is a Non-regulated (CAS/UN), Non-toxic, Non-flammable, Non-explosive, Non-reactive (at temperatures <600°C) chemical product and does not contain any known carcinogen and/or pathological agent as produced.

TOOL CLEANING

Tools impregnated with the product can be easily cleaned with tap water.

DOSAGE

Extensive testing and field results indicate optimum dosage to be 1 liter Techmo Adi3tek® per metric ton solid fossil fuel or 1000 liters liquif fossil or alternate fuel.



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PACKAGING

1 m3 (1000 liters) Plastic Containers and/or stainless steel tankers

STORING/SHELF LIFE

Store product in its original plastic containers in a dry, clean, covered warehouse. Keep containers closed to avoid airborne contamination. Avoid temperatures below 0°C. Product Shelf Life well beyond 12 months when properly stored.

HANDLING

Do not handle or store this product near food, beverages or tobacco. Use proper personal protective equipment (PPE) as described in Section 8.2 and follow handling instructions as described in Section 7 of Techmo Adi3tek® MSDS.

Spills/Leaks:

Avoid runoff into sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions as indicated in Section 8.2. Provide ventilation. Cover with dry earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading. Keep any combustible materials (wood, paper, oil, etc) away from spilled materials.

6.3 Cleaning Methods:

Collect spilled material with a clean plastic shovel, placing material inside a clean, dry container (e.g. a plastic bucket or a polyethylene bag), cover with a lid and dispose of it properly. Follow instructions provided in Sections 5.2, 6.2, 7 and 8.2.

FEATURES AND BENEFITS

Cement Kilns/Preheaters/Precalciners

- Increased thermal calciner line stability
- Increased throughput

- Reduced excess air consumption due to more efficient combustion
- Indirect Nox emissions due to enhanced combustion efficiency and reduced excess air demand.
- Dramatic pre-calciner/pre-heater and kiln crust build-up/ring formation reduction.
- Reduced preheater maintenance and cleaning cycles due to cleaner equipment walls
- Improved Personnel Safety and risk elimination due to build up elimination and false air entrance avoidance.

High Pressure Steam Generators

- Increases Steam production
- Reduces Fuel Oil consumption
- Increases equipment availability
- Reduces Boiler fluxes maintenance and cleaning cycles
- Acid Rain elimination
- Inhibits corrosion in boiler's high temperature zones
- Avoids acid corrosion by blocking Sulfuric acid formation in boiler's low temperature zones
- Homogenizes fuel avoiding sludge and/or sediment formation
- Maintains pipes, filters and pumps clean and deposit free
- Decreases fuel viscosity and surface tension, enhancing burner efficiency as well as boiler performance
- Decreases excess air consumption, fuel consumption, COxNOxSOx emissions, soot and acid mist formation.
- Increases Ash pH

NOTE:

The information and technical data given here are intended for guidance only and are subject to change without notice. They are based on data and knowledge considered to be true and accurate. However, we have control over the conditions under which our products are transported, stored, handled or used by our customers. Therefore, our guarantee is limited exclusively to product quality. None information or recommendation construed to violate any applicable rule or statute.