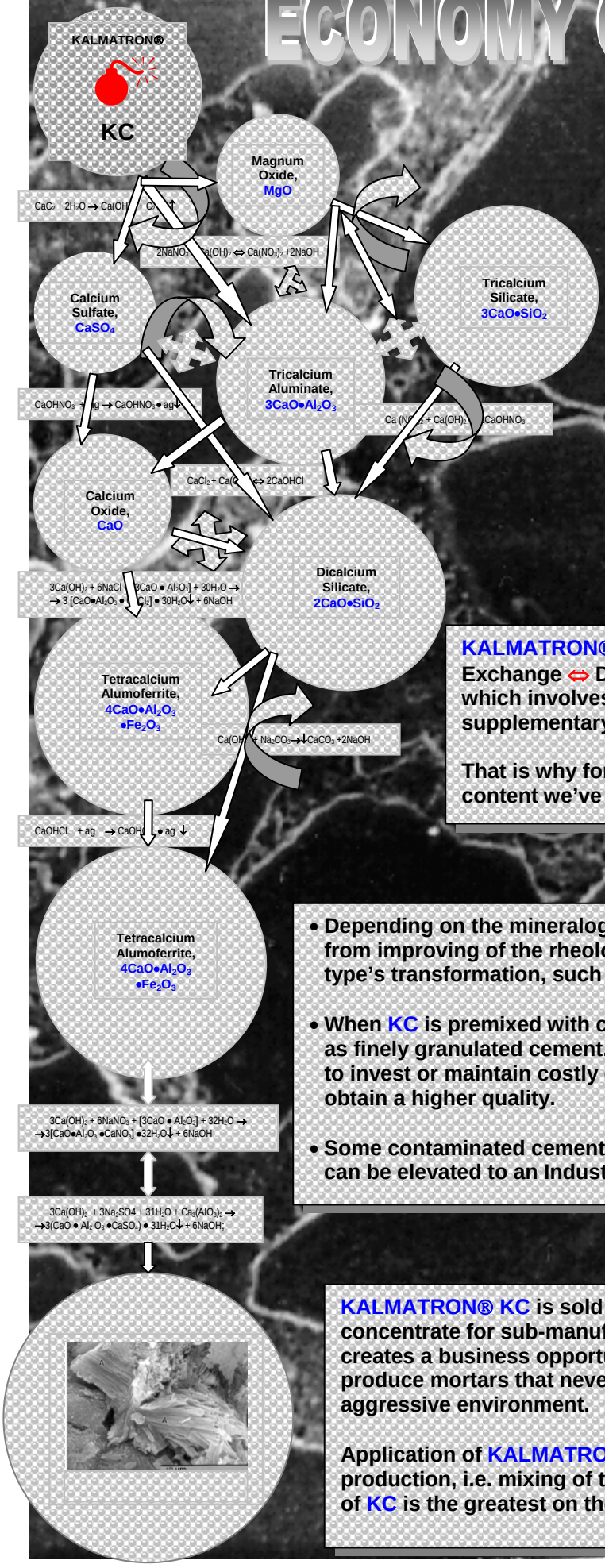
ECONOMY ON CLINKER



KALMATRON® CEMENT – KC - is an admixture to cement for the upgrading of cement type application. Designed as an activator of oxidation, **KC** provides the highest volume of cement hydration with micro-metal elements in the cement powder.

Clinker is the most valuable cementitious ingredient of cement. Cement is powdered with gypsum, slag, pozzolana, flyash, etc. with locally established proportions and has determined properties for the basic types of applications including Type I, II, III, IV, and V.

KALMATRON® KC provides reactions with cement grain by Exchange ⇔ Dissolution ⇔ Fusion ⇒ Frame Forming stages, which involves ion-kation sub-charges from cement and its supplementary premixes.

That is why for some cements with 25% reduction of clinker content we've had 100% increase of 7th day compressive strength.

- Depending on the mineralogical content of the cement, the results will range from improving of the rheological properties of the cement, to upgrading the type's transformation, such as from Type I; II to High Alumina Cement.
- When **KC** is premixed with coarsely ground cement, the resulting mix will work as finely granulated cement. The greatest savings potential is from not having to invest or maintain costly equipment needed to grind and kiln the cement to obtain a higher quality.
- Some contaminated cements that doomed to stay on a local retail sale level, can be elevated to an Industrial International Market Level with only 1% of **KC**.

KALMATRON® KC is sold as a ready to apply product, or as a chemical concentrate for sub-manufacturing of a ready mix. Sub-manufacturing of **KC** creates a business opportunity to economically improve cement quality, produce mortars that never crack and concrete that is highly resistant to aggressive environment.

Application of **KALMATRON® KC** takes place during the final stage of cement production, i.e. mixing of the cooled cement's ingredients. The effectiveness of **KC** is the greatest on the lowest grade conventional cements.