

Overview



- Introduce Concept C20
- Advantages of Concept C20
- Introduce Envirogain
- Introduce Envirowash
- Conclusions

Introducing Concept C20



- The challenge facing the dairy industry is to find a cost effective cleaning agent with acceptable cleaning efficacy whilst minimising environmental impacts of sodium discharge.

Introducing Concept C20



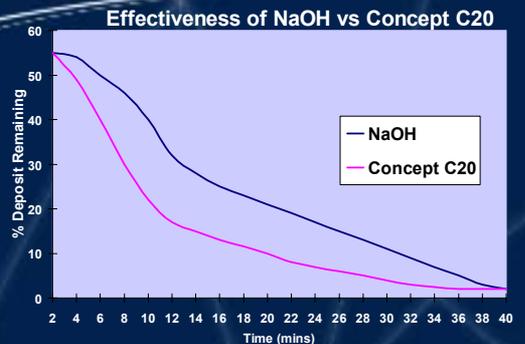
- Concept C20 is used extensively through out the New Zealand Dairy Industry and is also being introduced to the Australian Dairy market with great success.
- Replaces NaOH in all applications.
- High temperature & low temperature process applications.

Advantages of Concept C20



- Concept C20 has:
 - Superior CIP effectiveness.
 - Superior environmental performance.
 - Superior re-use potential.
 - Reduced freezing point.

Superior CIP Effectiveness

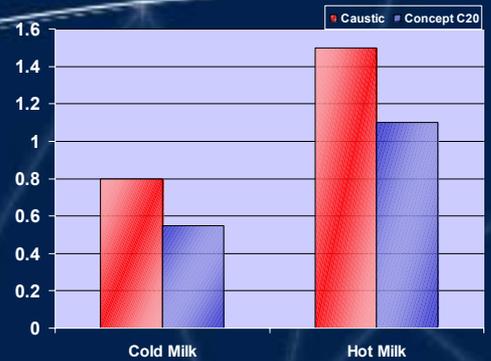


Superior CIP Effectiveness



- Vapour Phase Cleaning
 - Perhaps more important than any other fact is its unique ability to clean in the vapour phase.

Reduction in CIP Chemical Strength



Superior CIP Effectiveness



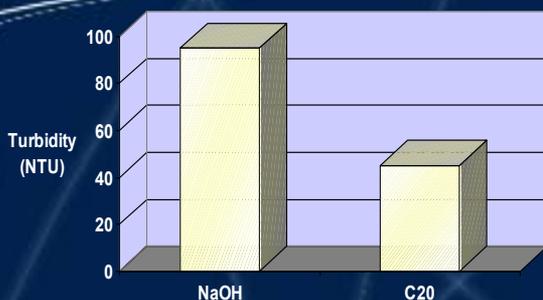
- Ideally suited to applications where there is marginal contact between the cleaning solution and the surface.
 - Evaporators
 - Underneath disperser plates
 - Vacreators
 - Inside vapour ducts

Lower Freezing Point ...Lower Capital Cost



- Reduced freezing point of 4.4°C.
- May negate the need for expensive heating tracing systems.

Improved Settling Capability



Superior Re-use Potential



- The ability of Concept C20 to cleanly separate suspended soil enables the application of sedimentation technology to prolong cleaning solution re-useability.
- Recovery rates of up to 68% have been achieved on an evaporator processing whole milk.



Concept C20 IS THE FUTURE OF DAIRY CLEANING

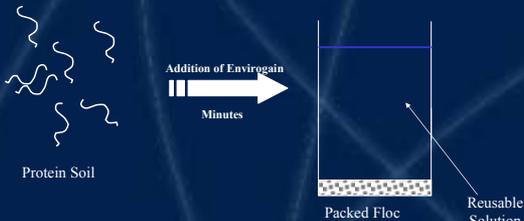


Introducing Envirogain

- Chemical additive used to improve alkaline chemical RE-USE
- Rapidly improves settling times and reclaim efficiency



Introducing Envirogain



Introducing Envirowash



- Acidic detergent sanitiser
- Used for CIP of cold milk surfaces
- Incorporates an advanced surfactant system for wetting as well as wide spectrum germicide for sanitation.

Introducing Envirowash



- CIP cleaning of milk tankers, silo's, milk lines and any stainless steel surface exposed to cold milk.
 - No Sodium
 - No Nitrates
 - No Phosphates

Conclusions



- Concept C20 - Is proven to reduce sodium to drain by up to 30%.
- Concept C20 is superior in every way to NaOH
 - Cleaning effectiveness
 - Environmental performance
 - Reuse potential

Conclusions



- Envirogain improves chemical reuse by rapidly increasing settling time and efficacy.
- Envirowash is a alternative to sodium cleaning for cold milk surfaces.
 - No Sodium
 - No Phosphates
 - No Nitrates

Questions?

