AERLITE™
AERLITE-iX™

Our AERLITE™ family of products produces the most advanced stable performed foam, allowing for major advancements in the application of cellular concrete.

AERLITE™ & AERLITE-iX™ Produced Celluar Concrete Features & Benefits

- Lightweight
- Insulating; freeze thaw resistant
- High Slump; virtually self leveling
- Rapid Installation by pump or gravity
- Load reducing engineered fill
- Absorbs shock waves
- Broad spectrum of densities and compressive strengths
- Low water absorbtion and low permeability
- Reduces hydrostatic pressure on retaining walls

The AERLITE™ family of products produces cellular concretes that comply with the standard specifications of ASTM C 869 when tested in accordance with ASTM C 796

CELLULAR CONCRETE FOR GEOTECH APPLICATIONS

Cellular lightweight concrete (CLWC) is used to solve a wide vairety of challenges in the geotechnical construction and mining industries. CLWC is an engineered fill material containing uniformly distributed air voids generated by mixing a cement slurry with a stable preformed foam. In it's rigid form, it can be thought of as concrete having air as the aggregate.

Aerix Industries™ engineers and manufactures a dynamic product line of foam liquid concentrates that produces the most advanced preformed foam in the industry. The AERLITE™ family of hybrid and synthetic foaming agents produce a closed-cell, non premeable light-weight concrete, when combined with a cement slurry.

CLWC produced using the AERLITE™ family of products, can be engineered with wet cast densities ranging from 20 to 120 pcf and compressive strengths of 20 to 3000 psi.

Multiple production methods and engineered material properties create a diverse index of practical CLWC applications. The ability to precisely control density, slump, and strength position CLWC as an ideal alternative to traditional fill methods in many construction applications.

Aerix Industries™
Advanced Engineered Foam Solutions

WWW.AERIXINDUSTRIES.COM
303-271-1773 info@aerixindustries.com 5902 McIntyre St. Golden, CO 80403 USA

AERLITE™
AERLITE-iX™

Our AERLITE™ family of products can be engineered to produce CLWC of specific densities, strengths, and slumps providing solutions to a wide range of geotechnical construction challenges

AERLITE™ & AERLITE-iX™ Geotechnical Applications

- Virtually Self-Leveling Fill
- Tunnel Backfill
- Underground Tanks and Piplines
- Soil Stabilization
- Annular Grouting / Backfill
- Load-Reducing Engineered Fill
- Pipeline Beds
- Fill for Abandoned Mines
- Impact Absorption
- Bridge Approach & Landslip Repair
- Retaining Wall Backfill
- Tremie Applications

CELLULAR CONCRETE FOR GEOTECH APPLICATIONS

CLWC engineered fill has a long track record of success providing value-engineered solutions when granular fills or lightweight aggregate material options are too heavy, site access is limited, or project schedules are tight. CLWC material is highly flowable and easily placed, does not require pre-loading for settlement mitigation, and provides a 2 to 1 point-load distribution edge. The fluid material will completely fill annular spaces and exhibits shrinkage of less than 0.3%. CLWC produced with the AERLITE™ family of products is environmentally safe and cost competitive.

ADVANCEMENTS IN CLWC TECHNOLOGY

The Aerix™ team is continually working to make advancements in CLWC technology. The ability to engineer the material to specific densities, compressive strengths and slumps has enabled us to customize the performance of our products to meet project specific requirements. Typical foams produce CLWC with an 8-9 inch slump which can be placed in 3 foot lifts and pumped a maximum of 5,000 feet. Our advanced engineered foam technology has allowed our technical team to engineer material with a 2-9 inch slump range, increasing lift thickness to 8-20 feet and increasing pumping distance to over 15,000 feet. Our advanced hybrid and synthetic foaming agents increase the stability of the bubble, allow for higher flyash usage and are continuing to advance the CLWC industry.

Aerix Industries™
Advanced Engineered Foam Solutions

WWW.AERIXINDUSTRIES.COM
303-271-1773 info@aerixindustries.com 5902 McIntyre St. Golden, CO 80403 USA