



ULTRATECH
INTERNATIONAL, INC.

Ultra-Archaea®
TECHNICAL DATA SHEET



PRODUCT DESCRIPTION

Ultra-Archaea contain oil-degrading beneficial microbes that are blended into an absorbent powder. It is designed to metabolize a wide range of petroleum and hydrocarbon contaminants. It is an archaea-based consortium consisting of aerobic, anaerobic and facultative anaerobic species which provide broad spectrum remediation activity.

TECHNICAL INFORMATION

Concentration Ultra-Archaea contain 5 billion microbes per gram

Reproduction Working population doubles every 20 minutes under ideal conditions

Activated Lifespan Approximately 3-4 months, depending on conditions

Shelf Life Storage

- 5 Years
- Keep dry
- Avoid direct sunlight
- Keep away from all chemicals or '-cides' which may kill microbes on contact
- 32°F-120°F. Stable temperatures preferred. Avoid wide temperature fluctuations

Cultivation

- 100% naturally-occurring and cultivated
- Non-GMO
- Non-Pathogenic
- Non-Freeze Dried

Activation

- Safe for use around people, plants and animals, aquatic and on land
- Activated by water/moisture: fresh, salt or brackish
- Must have contact with contaminant to stay active
- Area to be treated must have natural or exogenous nutrients. Ultra-Archaea nutrients can be added to supplement indigenous nutrients
- Oxygen is needed for optimal performance. Aeration may be added to invigorate microbial activity

CONDITIONS OPTIMIZATION

pH tolerance pH 5.0-10.0 (ideal working range pH 5.5-8.5)

Temperature tolerance 32°F-120°F (ideal working range 40°F-110°F)

Salinity tolerance Up to saturation (depends on minerals)

Oxygen minimum Min 1ppm maintained (% of formula microbes are anaerobes and facultative anaerobes, but consortium performs better with O₂)

Moisture Humidity >10% maintained; in soil >1% moisture maintained

Disclaimer: This data contains typical properties only and should not be used for specification purposes. It is intended as a guide only. For specification and estimating purposes, contact your Ultra-Archaea representative.