

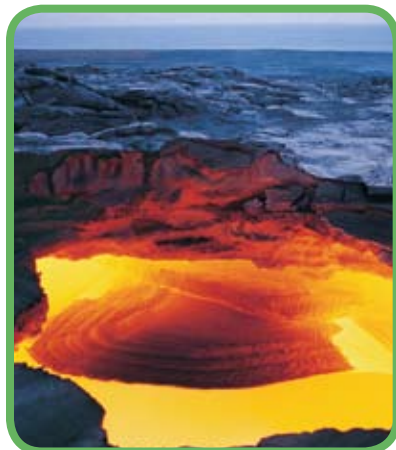
Pyrolase™ 160

BROAD RANGE ENZYME BREAKER (3x)



Pyrolase™ 160

BROAD RANGE ENZYME BREAKER

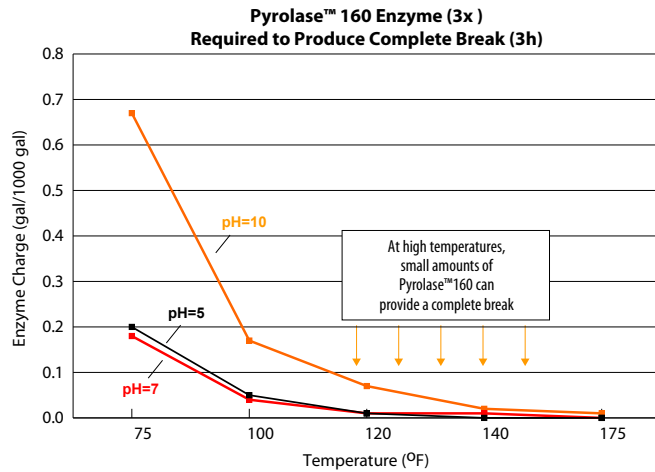


Pyrolase™-160 enzyme is a broad spectrum β -mannanase which can be employed in a variety of industrial applications as it operates at higher pHs and temperatures than conventional enzymes of this class. This product is useful for the breaking (or hydrolysis) of beta-linked carbohydrates such as guar gum, derivatized guar and carboxymethyl cellulose. The action pattern of Pyrolase™-160 enzyme includes both endoglycosidase and exoglycosidase activities, allowing it to effectively reduce viscosity by cleaving within long polysaccharide chains and also by cleaving disaccharide units from the ends of the polymers.

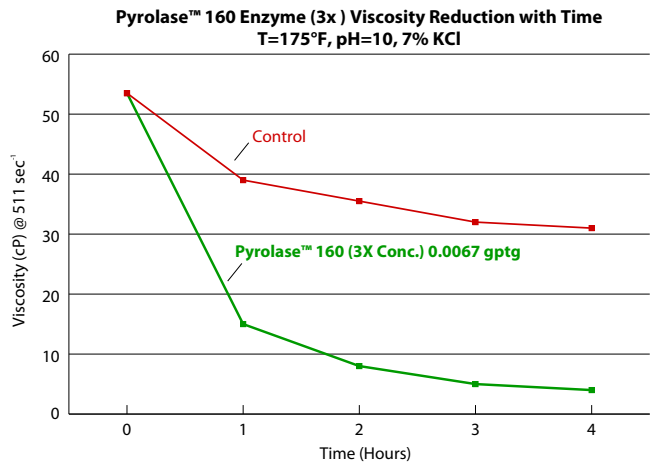
THE PYROLASE™-160 ADVANTAGE

- ✓ PROVIDES A COMPLETE VISCOSITY BREAK ACROSS A WIDE RANGE OF TEMPERATURE, PH AND HIGH SALINITY
- ✓ SUPERIOR PERFORMANCE AT HIGH TEMPERATURES AND PH COMPARED TO COMMERCIALY AVAILABLE HEMICELLULASES
- ✓ BREAK TIME IS EASILY CONTROLLED BY VARYING ENZYME CHARGE
- ✓ EFFECTIVE IN BREAKING LINEAR AND CROSSLINKED FLUIDS
- ✓ EFFICIENT IN THE COMPLETE HYDROLYSIS OF GUAR GUM, DERIVATIZED GUAR AND CARBOXYMETHYL CELLULOSE
- ✓ EASY TO USE LIQUID FORMULATION
- ✓ STABLE EVEN AT ROOM TEMPERATURE

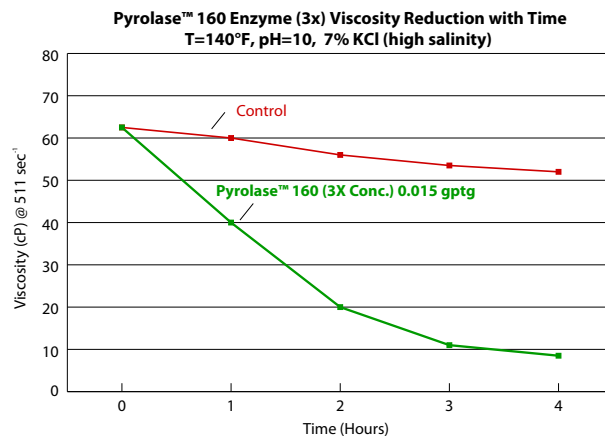
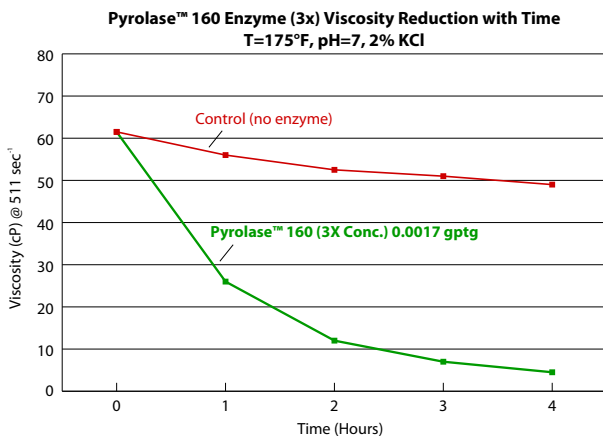
PROVIDES A COMPLETE BREAK ACROSS A WIDE TEMPERATURE AND PH RANGE



ENABLES REQUIRED VISCOSITY BREAKS AT EXTREME CONDITIONS COMPARED TO OTHER COMERCIAL HEMICELLULASES



PERFORMS AT HIGH TEMPERATURES ACROSS A WIDE PH RANGE AND HIGH SALINITY CONDITIONS YET REQUIRING LOW ENZYME LOADINGS



Pyrolase™ 160

BROAD RANGE ENZYME BREAKER (3x)

SPECIFICATIONS

Characteristics

- Endo-beta-1,4-glucanase (EC 3.2.1.4)
- Formulated liquid
- Active Temperature: 100° - 200 °F (37° - 93 °C); 175 °F (79 °C) optimum
- Active pH: 5.0 - 10.0
- Compatibility: biocide, brine (seawater), glycerol, glycol, KCl, and water
- Dilution: This product may be diluted with water for immediate use. To winterize this product, use ethylene glycol
- Formulation: 35% glycerol with 300 ppm biocide

Application (For Industrial Use Only)

Pyrolase™ 160 enzyme is a broad-spectrum β -glycosidase with activity against guar, hydroxypropyl guar, carboxymethyl guar, carboxymethyl hydroxypropyl guar, carboxymethyl cellulose, barley β -glucan, and locust bean gum. The action pattern of Pyrolase™ 160 is both endo and exo, allowing it to effectively reduce the viscosity of guar and derivatized guar solutions by cleaving within long polysaccharide chains and also by cleaving disaccharide units from the ends of the polymers.

Package Sizes

- Container: 1 quart (946 ml)
- Packaged in 4 containers per box

Storage and Stability

- Recommended Storage Conditions: Store in tightly sealed containers at 39° - 46 °F (4° - 8 °C)
- Shelf Life: Minimum of 1 year if stored at 39° - 46°F (4° - 8°C)

Safety

- Please consult Material Safety Data Sheet before using.

CONTACT INFORMATION

For more information on Verenium's Pyrolase™-160 enzyme or other enzyme products, please contact:

Verenium Customer Service

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