

# DYNO

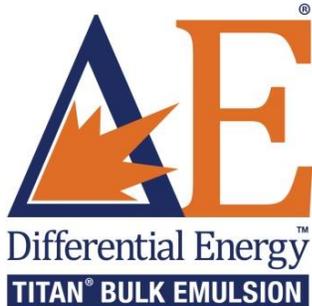
## Dyno Nobel

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### PRESS RELEASE

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### **TITAN® 1000ΔE (DIFFERENTIAL ENERGY™) AIDS IN FINES REDUCTION**

*Using TITAN 1000ΔE Has Shown to Reduce Fines and Improve Digging at the Floor for Multiple Quarries*

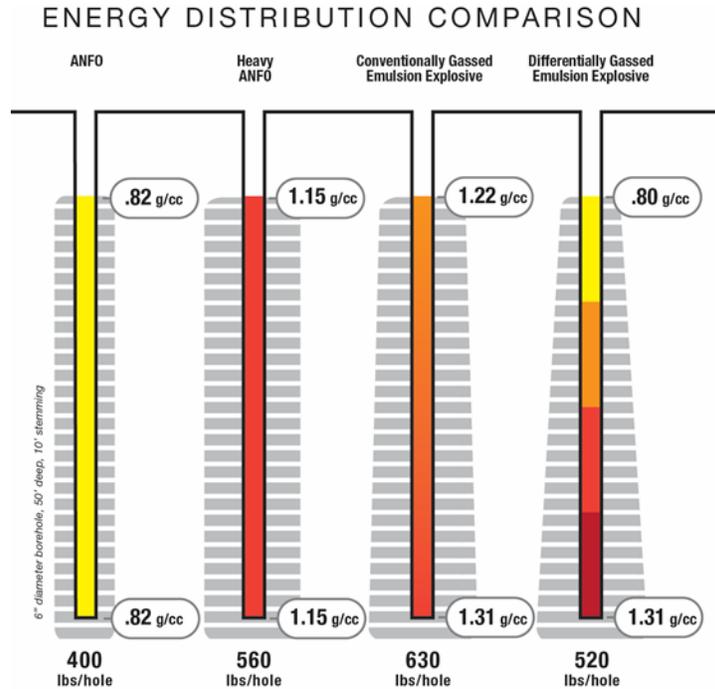
SALT LAKE CITY, UT—*Dyno Nobel*, a global leader in commercial explosives, is known for its TITAN Bulk Emulsion products providing the right energy for optimal blasting. TITAN 1000, better known as Differential Energy, is a gassed emulsion and delivery system that distributes the right energy to the targeted location in the blast hole allowing the user to match the product density to the geology in the ground. This product has been instrumental for many different quarries, improving their productivity and safety.

After switching to Differential Energy, quarries have achieved overall cost savings because of better fragmentation, reduced fines, and easier digging for the loaders at the floor. What makes Differential Energy unique is the targeted density placement of emulsion in the blast hole matching lighter product densities with softer ground and heavier densities with harder ground. Conventionally gassed emulsions have naturally occurring energy density variations in the blast hole due to physics. The user generally is able to achieve a higher density in the toe and a lighter density in the top. However, the density range and the ability to customize the density in the blast hole are limited.

The Differential Energy system uses proprietary, specialized hose technology to achieve a wide range of densities in the blast hole and a specialized computer controlled system to place the densities in the blast hole.

DYNO  
Dyno Nobel

Groundbreaking Performance



Many quarries throughout the US and Canada have switched from sensitized emulsion, blends, and conventional gassing to Differential Energy and have achieved overall cost savings benefits. TITAN 1000ΔE enables quarries to achieve the following benefits:

- Optimal fragmentation
- Reduced fines
- Optimal use of explosives minimizing wasted energy
- Improved digging for loaders at the floor
- Reduced NOx incidents
- Minimized flyrock

About Dyno Nobel:

*Dyno Nobel* is a subsidiary of Incitec Pivot Limited ABN 42 004 080 264 (ASX:IPL). Dyno Nobel has customers in the mining, quarry, construction, pipeline and geophysical exploration industries. The company operates in Australia, Canada, the United States, Africa, Indonesia, Mexico, South America, Papua New Guinea and Turkey. Dyno Nobel manufactures a full line of commercial explosives, including ammonium nitrate, bulk explosives, packaged emulsions, dynamite, detonators (electric, nonelectric and electronic), cast boosters, and detonating cord, as well as surface and underground loading systems and Portable Modular Emulsion Plants. The company also offers services, including blast design, shot loading, shot service, vibration control, airblast, flyrock and NOx reduction, through DynoConsult, a specialist consulting division of Dyno Nobel. Please visit [www.dynonobel.com](http://www.dynonobel.com) for more information.

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