

Media Release

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FOR IMMEDIATE RELEASE

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NO_x Reducing Bulk Emulsion TITAN® 9000xero™ Proves Successful!



In certain environments, mines operate in conditions where harmful fumes, such as NO_x (nitric oxide/nitrogen dioxide), are at greater risk of developing during blasting. Dyno Nobel, known for developing ground-breaking customer solutions through practical innovation, has once again delivered on this promise—this time in the coalfields of New South Wales, Australia. Dyno Nobel's R&D team has developed TITAN 9000xero, a reduced energy, bulk emulsion explosive that is designed to assist with post blast fume management. This product is now going to market.

Product Trials Prove Successful

With concern for the environment and meeting the Environmental Protection Authority (EPA) guidelines for reducing post blast fume. Dyno Nobel helped in developing a new product to minimise fume emissions. And it delivered. Mines facing post blast fume problems now have a product that has been successful in reducing post blast NO_x.

Working in partnership with customers, TITAN 9000xero was developed in-house by Dyno Nobel's R&D team to deliver a solution for customers operating in environmentally challenging conditions where post blast fume can occur. The result was not only a solution with lower fume emissions, but a solution that provided a rating of ZERO on the Fume Rating Scale.



TITAN® 9000xero™

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Trial Results Bring Fume Rating to Zero

TITAN 9000xero was tested as part of a controlled Fume Reduction Program. Thirteen blasts were performed in high risk fume sensitive areas. All thirteen of these blasts recorded a rating of zero. During the trial, The Environmental Protection Agency was able to see the transformation in an area of known high fume risk where prior blasts rated 3–4 on the NO_x Rating Scale. The consistent rating of zero resulted from the client changing their bulk emulsion explosive to TITAN 9000xero matrix blend. Making this trial a true success!

Chris Melmeth, Dyno Nobel's Area Operations Manager reported that, "all observers of the blast were extremely happy and satisfied with the results of the new product." It was also recognised that reducing fume ratings to 0 from 3–4 during the trial was a huge success.

Care for the Community and our Environment

The practical innovation of TITAN 9000xero is making the communities and environment a safer place by reducing NO_x fume generation. It is specially designed for use in ground conditions that may be soft, wet/damp. Flexible delivery with these ground conditions is critical. This is why the product can be delivered into dewatered blast holes, via auger, or pumped into the bottom of wet blast holes. TITAN 9000xero is a fume reducing, water resistant, flexible solution, solving many of the challenges that mines may be facing.



Dyno Nobel's ethos is to work in partnership with its customers, earning an enviable reputation of being a trusted global partner. Dyno Nobel listens to its customers' needs and works with them to tailor an approach in delivering ground-breaking solutions. Dyno Nobel not only meets its customer's expectations but strives to exceed them, just like with TITAN 9000xero—another practical innovation by Dyno Nobel.

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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 for more information.

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