

## EXPLOSIVES TECHNICAL SERVICES

MREL provides explosives technical services to a variety of industries and government Clients around the world. These services are provided at the Client's site or at MREL's Explosives Test and Evaluation Facilities. MREL provides research and testing services to explosive manufacturers, explosive component manufacturers, and to those Clients requiring field trials of their products against attack by explosives and/or explosive devices.

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1. SURVIVABILITY
2. CONSULTING
3. PERFORMANCE
4. QUALIFICATION



Qualification testing on explosive items to meet various standards.

Survivability testing using explosives to evaluate Clients' items.

Melt cast explosive facility producing precision casts with quality control using non-destructive techniques.

Performance testing of explosives for characterization of products.

Consulting around the world to commercial mining operations.

MREL is a Controlled Goods Program registered corporation.

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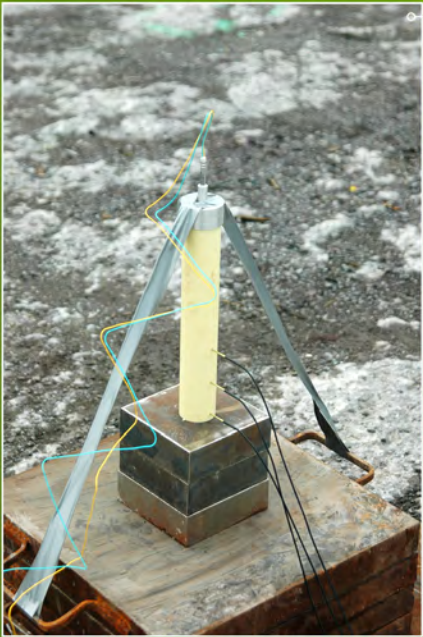


## QUALIFICATION

MREL conducts tests on Clients' energetic materials to confirm that they meet or exceed the performance requirements set in published Standards. MREL's Staff and facilities have assisted many companies by conducting short-notice testing with rapid production and delivery of testing data and results.

## PERFORMANCE

MREL utilizes various testing methods to characterize the performance of energetic materials and is able to consider specific test configurations requested by Clients. A plate dent test on a sample of explosives utilizing multi-point capture of the position of the detonation head is shown. MREL also uses continuous recording systems to measure the explosives detonation velocity.



## SURVIVABILITY

Whether its testing the survivability of complete armoured vehicles, subsets of vehicles, personal protective equipment, armour or other items subjected to attack by explosives, MREL provides Clients with the flexibility to alter the testing program to respond to ongoing test results within the time and budget allocated.



## CONSULTING

MREL Technical Specialists travel worldwide to Clients' locations to provide explosives and blast testing and training solutions under Client-specific testing conditions.

## QUALIFICATION:

From conducting a wide variety of insensitive munitions tests conducted to STANAG (NATO), MIL-STD-2105C (USA), MURAT (France), BR8451 (UK), DEFSTAN0035 (UK) to providing assistance with UN Explosives certification of new products, MREL's experienced trials teams are ready to rapidly host your program safely, securely and successfully.

## PERFORMANCE:

Explosives performance testing is conducted for explosive manufacturers, consumers and government labs. MREL's experienced trials teams will host your trials program at one of its fully instrumented Explosives Research & Development, Test & Evaluation Facilities. With MREL's history of no loss-time accidents you can be assured of a safe and successful trials program.

## SURVIVABILITY:

Building materials, vehicle armour and personal protective equipment are among the items tested for survivability at MREL's fully licensed, privately owned Explosives Research & Development, Test & Evaluation Facilities. MREL's trials personnel bring vast testing experience, private turn-key facilities, rapid turn-around, and an impeccable safety record to your trials program.

## CONSULTING:

MREL explosives and blasting specialists will visit your explosives facility or blasting site to test explosives and blasting accessories and their effects under your testing/blasting conditions. Explosives consulting expertise at MREL includes industrial explosives formulation/additives, explosive selection/testing, high-speed video capture and analysis and on site personnel training.