

NEWS THIS MONTH

YOUR SOURCE FOR ALL THINGS ROCK-BREAKING



THE ADVANTAGES OF NXBURST VS HIGH EXPLOSIVES

There are significant differences between Nxburst Safety Cartridges and high explosives. Nxburst Safety Cartridges deflagrate unlike conventional explosives that detonate. This subsonic reaction eliminates significant environmental impacts when required. Nxburst Safety Cartridges also break rock on tensile strength rather than compressive strength. This allows for better wall control, less waste in dimensional stone applications and actually less explosive material to break the same volume of rock.

Energy

NxBurst Safety Cartridges have low energy when compared to conventional explosives. This is due to the speed of deflagration (300 m/s) compared to the shockwave of conventional explosives (3,500 – 6,000 m/s) Due to this, there is minimal vibration (this has been tested and proven on many occasions) and allows our product to be used in close proximity to green cement,

busy roads, personnel, expensive equipment and sensitive structures/facilities. For the same reasons as above, fly-rock is therefore 100% controllable.



Environmental Impact and Sensitivity

Dust and Noise levels are significantly lower than conventional explosives. Collateral damage is minimal as Nxburst Safety Cartridges only do what you want them to do. When breaking rock towards a free face, the back break or damage to adjacent rock is non-existent.

Safe Distances

One of the major advantages of Nxburst Safety Cartridges is that your safety distance is approximately 50 metres. This means that personnel and expensive equipment only require local clearance instead of complete site evacuation. The benefit of this is that rocks and boulders can be broken in shift and in close proximity to working operations.

Competency & Fragmentation

When compared to conventional explosives, the damage cause to adjacent rock structures is minimal. Nxburst Safety Cartridges transfer minimal energy to the adjacent rock which leaves it in a competent state, unlike explosives that tend to fragment or crack the adjacent rock which reduces the safety of the surrounding structures.

Tunnels or Development ends that are blasted with Nxburst Safety Cartridges are far safer than those which are created with conventional explosives.

Product range

With cartridge diameters available as small as 13mm right up to 60mm with gram weights from 5 grams to 650 gram charge weights. You can always find the right cartridge for the job, drastically improving the safety and effectiveness of your work.



50 Years | An Explosive Milestone

We will be at booth 406 in Savannah with representatives from NXCO Mining Technologies. Join us and experts from around the world as we celebrate five decades of enhancing the safety, science, skill, and benefits of explosives engineering. Be part of this historic event featuring thought-provoking presentations, groundbreaking research, and unmatched networking opportunities.

<https://isee.org/>

Logo for the 50th ISEE Annual Conference on Explosives & Blasting Technique, 2024, held at the Savannah Convention Center in Savannah, GA, from January 24-27, 2024.