

Business Associates :



Eco Friendly
Pulse Plasma Rock
Fragmentation Technology



DATTATREYA INC.

Respected Sir / Madam,

Nonex Non-Detonating Cartridge for Rock Blasting

Nonex & Nxburst non-detonating cartridge are manufactured by **Nxco Mining, SA** & have been fully tested by UN accredited testing companies. **Nxco** sensitive rock breaking cartridges have been classified as UN 1.4S and can be transported globally on commercial airlines.

Since the formation of the company two decades ago, the company developed innovative, propellant based, **rock and concrete breaking technology**. The technology is based on a non-detonating chemical compound enclosed in a cartridge, which reacts quickly when ignited to produce gas, mainly consisting of nitrogen, carbon dioxide and steam; which develops rock splitting due to tensile stresses.

Nxco cartridges break rock and concrete with **low ground vibrations, controllable fly rock, reduced dust and noise**. Blasting process develops **No Shock wave, low Air blast Pressure, suitable for seismic sensitive environments**. Thus one can use near to structure but will only require localised clearance of equipment and personnel for usage.

Nxco cartridges are available in **13mm, 28mm, 34mm, 42mm, 60mm and 90mm** diameters to suit specific requirements / Applications. All cartridges are water resistance but can be made available water proof also. The **Nxco** products are widely used in various applications such as:

- Trench
- Removal of heavy scales in tank
- Concrete demolition
- Building & construction Industry
- Tunnelling
- Shaft excavation
- Deep underground mining
- Open Cast mining

1.4S classification is given to the products that do not explode when ignited in their original packaged state and as such the classification defines **Nxco RBC's** as a pyrotechnic product for transport and storage purposes. Thus product can also be transported by commercial aircraft. Storage regulations for **Nxco's** RBC's are relaxed in terms of quantities. Transportation regulations are also relaxed for minimal quantities (less than 250kg) can be transported without a registered explosives vehicle.

The most significant difference between **Nxco RBC's** and explosives are **Nxco cartridges deflagrate** unlike conventional **explosives** that **detonate**. **Nxco cartridges break rock** on **tensile strength** rather than **compressive strength** in conventional **blasting**.

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Fragmentor™ self-steaming cartridges are available in two models – the Axial Piston (AP) and Concentric Case (CC) ranges. Which are designed & used for:

- Serial installations (Stacking)
- Deep holes
- Through holes
- Fractured rock
- Porous rock
- Underwater application.

For more information, please visit www.dattatreya-inc.com, or Nxco company website www.nxco.co.za where the brochures, videos etc. are available. We at **Dattatreya Inc.** are happy to bring **Ground Breaking** innovative technology to India from **Nxco Mining, SA.**

We look forward to receiving your specific requirements to revert back to you.

Thanking you,

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