Description
The Centra™ Control Bulk system is a range of high-energy products that provides superior performance under wet or dry conditions. Centra™ Control is available in a range of densities depending on product blend.

Application
Centra™ Control Bulk System is specifically designed for quarry and construction blasting applications in both wet and dry conditions. The Centra™ Control Bulk System is not suitable for blasting in ground containing reactive sulfides.

Key Benefits
- Centra™ Control is manufactured and delivered with precise control at a rate to enhance your productivity.
- Centra™ Control is an energetic explosive with proven reliability in the most difficult blasting applications.
- Centra™ Control is a solid sensitized product available in a range of blends and densities for improved vibration control, increased shock energy for fragmentation, and increased heave energy for cast performance.
- Stemming operations can occur immediately after loading Centra™ Control, increasing on bench productivity.
- The increased energy of Centra™ Control enables pattern expansion resulting in reduced drilling and quarrying costs.
- Centra™ Control provides fully coupled explosive charges to maximize blasting outcomes.
- The high on-bench productivity of Centra™ Control means faster delivery and turnaround of shots.

Recommendations for Use
Blasthole Charge Length
Taking into consideration blasthole diameter, expected product density, and the presence of water in the blasthole, Centra™ Control is suitable for use in holes up to 25 meters (82 feet) in depth. Please consult an Orica Technical Representative for application guidelines.

Priming and Initiation
Centra™ Control is a booster sensitive emulsion and must be in direct contact with an appropriately sized Pentex™ booster. The use of detonating cord may adversely affect the performance of the Centra™ Control series and could result in misfires. Consult an Orica Technical Representative before attempting to use with detonating cord.

Charging
Centra™ Control is delivered by an Orica Mobile Manufacturing Units (MMU™). Centra™ Control is manufactured on the MMU™ and delivered into blastholes on demand.

Sleep-Time Within Blastholes
The recommended maximum sleep time is 1 month. Sleep time is dependent on factors such as hole diameter, density, ground water conditions, and initiation system. An Orica Technical Representative should be consulted if special conditions exist.

Ground Temperature
These products are available for use in ground temperatures 0°C (32°F) to a maximum of 55°C (131°F). If your application...
requires you to operate outside this temperature range, please contact your local Orica Technical Representative.

Storage and Handling
Product Classification - Canada & USA
Authorized Name: Centra™ Control 30
Centra™ Control 40
Centra™ Control 70
Centra™ Control 80
Centra™ Control 100
Proper Shipping Name: Explosive, blasting, type E
UN No: 0332
Classification: 1.5D

All regulations pertaining to the handling and use of such explosives apply.

Disposal
Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user’s situation. Please contact an Orica Technical Services Representative for information on safe practices.

Safety
Centra™ Control is relatively insensitive to accidental initiation by shock, friction or mechanical impact under normal conditions of use. Detonation may occur from heavy impact or excessive heating, particularly under conditions of confinement.

Explosives based on Ammonium Nitrate such as the Centra™ Control may react with pyritic and/or sulfide minerals in the ground and create potentially hazardous situations. Orica accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material.

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Emergency Telephone Numbers
For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

Canada: Orica Canada emergency response 1-877-561-3636
USA: Chemtrec 1-800-424-9300

Notes:
(1.) Nominal density only.
(2.) Where ground movement is likely or charge lengths are in excess of 20 feet (6.1 meters), Orica recommends extra insurance priming.
(3.) The actual VOD depends on the conditions of use including the diameter of the hole and the degree of confinement. VODs can be higher in holes greater than 4 inches (102 mm).
(4.) The “Relative Effective Energy” (REE) of an explosive is the energy calculated to be available to do effective blasting work. All energy values are calculated using the IDeX™ computer code owned by Orica for the exclusive use of its companies. Energy values are based on standard ANFO with a density of 0.84 g/cc and a cut-off pressure of 100Mpa. Other computer codes may give different values.