



# JOHNEX explosives

## ECONOTRIM BUTTBUSTER®

JOHNEX ECONOTRIM BUTTBUSTER® is a one-piece custom length bright yellow semi rigid coiled charge designed for rapid charging of perimeter boreholes in underground mines.



### APPLICATION

Specifically designed for delivering smooth walls and a safer controlled blast in development headings and shaft sinking.

### FEATURES AND BENEFITS

- High energy flared end eliminates the need for a separate primer.
- High velocity of detonation (VOD) minimizes geological stress and reduces overbreak to an average of 4%
- Decoupled charge produces precision shearing which minimises the need for reblogging
- Charging time is reduced by up to 50%
- Reduces scaling times substantially (50%-70%)
- Reduces shotcrete coating by an average of 30%
- Precision blasting provides improved safety with regard to ground control and reduces potential rockfall
- Oxygen balanced explosive (no nitroglycerine)
- Prefitted retention spiders eliminate the need for stemming
- Jumbo downtime is reduced due to precision shearing and less scaling
- Waterproof
- Vastly superior shelf life to comparable perimeter products
- Customised charges are manufactured to suit individual borehole depths

### PHYSICAL PROPERTIES

PRODUCT	NOMINAL DENSITY (g/cm <sup>3</sup> )	ACTUAL LENGTH (m)	TO SUIT BORE HOLE DEPTH (m)	DIAMETER (mm)	VOD (m/s)	PRIMER LENGTH (mm)
ECONOTRIM BUTTBUSTER® 200	1.04	2.0	2.4	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 240	1.04	2.3	2.8	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 312	1.04	2.7	3.1	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 330	1.04	3.1	3.5	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 378	1.04	3.3	3.8	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 412	1.04	3.8	4.3	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 456	1.04	4.1	4.5	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 500	1.04	4.6	5.1	21	6500-7000	300
ECONOTRIM BUTTBUSTER® 530	1.04	5.1	6.0	21	6500-7000	300
Relative Weight Strength: 131%*						
Relative Bulk Strength: 139%*						
Explosive Class: 1.1D UN Number: 0082						

\*Relative Weight Strength and Relative Bulk Strength are calculated using an in-house Thermodynamic code. This traditional way of calculating energy is directly related to density and does not take into account the distribution of energy.

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ECONOTRIM BUTTBUSTER® – TECHNICAL DATA SHEET



## ECONOTRIM BUTTBUSTER®

### STANDARD PACKAGING

PRODUCT	COILS PER CASE	WEIGHT (KG)	BOXES PER PALLET
ECONOTRIM BUTTBUSTER® 200	24	25	16
ECONOTRIM BUTTBUSTER® 240	22	25	16
ECONOTRIM BUTTBUSTER® 312	19	25	16
ECONOTRIM BUTTBUSTER® 330	17	25	16
ECONOTRIM BUTTBUSTER® 378	16	25	16
ECONOTRIM BUTTBUSTER® 412	15	25	16
ECONOTRIM BUTTBUSTER® 456	13	25	16
ECONOTRIM BUTTBUSTER® 500	12	25	16
ECONOTRIM BUTTBUSTER® 530	11	25	16

### STORAGE AND HANDLING

Store in a clean well ventilated & dry magazine licensed for Class 1 Explosives.

### SHELF LIFE

ECONOTRIM BUTTBUSTER® has a shelf life of 10 years when stored as per AS2187.1.

### SAFETY

Although ECONOTRIM BUTTBUSTER® is oxygen balanced, users should ensure that adequate ventilation is provided prior to re-entry to the blast site. As with all explosives, ECONOTRIM BUTTBUSTER® can be initiated by shock, friction or mechanical impact and should thus be handled and stored with care.

For more information please consult the Material Safety Data Sheet.

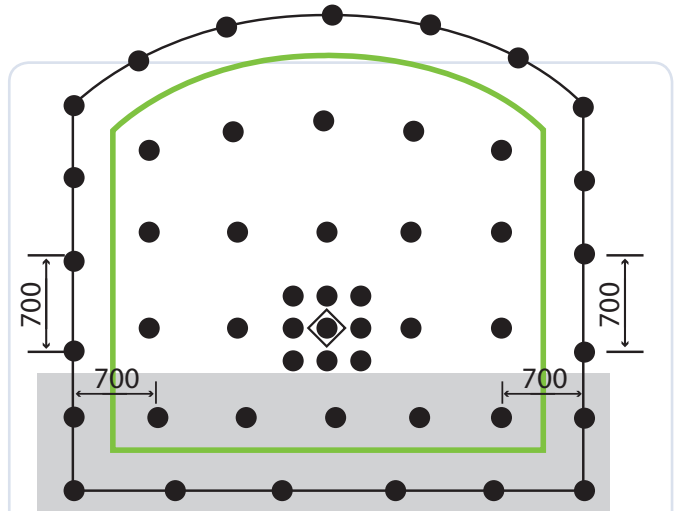
### ADDITIONAL INFORMATION

Recommended Perimeter Borehole Spacing 700mm

Recommended Perimeter Borehole Uncharged Collar 400 - 500mm

Recommended Burden 600-700mm

Recommended Burden Hole Uncharged Collar (ANFO) 600-700mm



#### RECOMMENDED UNDERGROUND DEVELOPMENT HEADING

- Use same delay on all perimeter holes
- Tie in 5g Detonating cord to be < 300mm from perimeter holes (shown in green)