

Shock★Star PF

PRODUCT INFORMATION BROCHURE

Shock★Star PF non-electric detonators are designed especially for tunnel applications where plastic remains have to be eliminated from the muck pile. This product could be also beneficial for underground mines where plastic remains negatively influence the material processing. It consists of Shock★Star TS (including Shock Tube) and low energy detonating cord.



BENEFITS

- Significant reduction of plastic remains in the muck pile.
- The same handling as with standard non-electric detonators.
- Fast blast preparation.
- Whole range of Shock★Star TS delays is available (25 – 9,000 ms).

PROPERTIES

- Whole product (Shock★Star TS, Shock Tube and detonating cord) is delivered in one piece, already assembled.
- Manufactured with bright yellow Shock Tube for high visibility.

INITIATION

- Shock★Star PF must be initiated by 5 or 6 g/m detonating cord (overspun detonating cord is recommended).

DELAY SEQUENCE

| Delay # | 0 | 1 | 1 ^{1/2} | 2 | 2 ^{1/2} | 3 | 3 ^{1/2} | 4 |
|--------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
| Nominal delay (ms) | 25 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| Delay # | 4 ^{1/2} | 5 | 5 ^{1/2} | 6 | 6 ^{1/2} | 7 | 7 ^{1/2} | 8 |
| Nominal delay (ms) | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| Delay # | 8 ^{1/2} | 9 | 9 ^{1/2} | 10 | 11 | 12 | 14 | 16 |
| Nominal delay (ms) | 850 | 900 | 950 | 1,000 | 1,100 | 1,200 | 1,400 | 1,600 |
| Delay # | 18 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Nominal delay (ms) | 1,800 | 2,000 | 2,500 | 3,000 | 3,500 | 4,000 | 4,500 | 5,000 |
| Delay # | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| Nominal delay (ms) | 5,500 | 6,000 | 6,500 | 7,000 | 7,500 | 8,000 | 8,500 | 9,000 |



AUSTIN POWDER

Austin Detonator s.r.o., Jasenice 712, 755 01 Vsetín, Czech Republic

Phone: +420 571 404 001 | Fax: +420 571 404 002 | Email: marketing.info@austin.cz | www.austin.cz

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STANDARD TECHNICAL DESCRIPTION

| | |
|-----------------------------------|--|
| Detonator | |
| Detonator shell material | Aluminum |
| Base charge | 720 mg |
| Water pressure resistance | 0.005 MPa / 7 days |
| Temperature range for application | from -30 °C to +60 °C |
| Shelf life (storage conditions) | 2 years (-30 °C to +40 °C) in original, sealed package |
| Label marking | Delay #, Detonator type, Delay ms, ST length, DC length, Data matrix code (traceability) |
| Notified body | CE 0589 |
| Shock Tube | |
| Velocity of detonation | 2,000 ± 100 m/s |
| Color | Yellow |
| Detonating Cord | |
| Explosive charge | 3.2 g/m |
| Color | Pink |

WARNING

Shock★Star PF may adversely affect the performance of some explosives. Consult Austin Technical Representative for compatibility recommendations before attempting to use.

STANDARD PACKAGING DETAILS

| Shock Tube length (m) | Detonating cord length (m) | Packaging 1.1B UN 0360 | | |
|-----------------------|----------------------------|------------------------|--------------------|-------------|
| | | Units / Inner box | No. of Inner boxes | Units / Box |
| 3.6 | 2.4 | 20 | 4 | 80 |
| 4.8 | 2.4 | 20 | 4 | 80 |
| 4.8 | 3.0 | 20 | 4 | 80 |

Shock★Star PF detonators are packaged in cardboard carton of outer dimension 390x235x295 mm.

Other lengths of Shock Tube and detonating cord are possible on demand.

Contact your local Austin Powder representative for further information.

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It is solely the responsibility of the product user to determine the safe conditions for use of the products referred to herein. Use of any products by a user is at the user's sole risk.

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