



# PRODUCT INFORMATION

## BROCHURE

1.1B

# SHOCK★STAR SURFACE



The **Shock★Star Surface** Surfaces are specially designed for the initiation of other non-electric detonators and for introducing a delay between holes. The connector is designed to ensure reliable connections in two positions: unlocked position for normal working conditions and locked position for the most demanding working conditions with risk of disconnection

The **Shock★Star Surface** Surfaces are equipped with connectors capable of holding up to 8 shock tubes. The connectors have a lower base load to reduce noise levels and eliminate shrapnel cutting problems. **Shock★Star Surface** Connectors should not be used to initiate the trigger cord.

## PRODUCT OVERVIEW

### PROPERTIES

Delays and colors						
Nominal delay (ms)	0	9	17	25	42	67

\*Ask for 100 and 200 ms

### PROCEEDS

- Simple connection of the shock tube, with locking mechanism that ensures the blocking of the tubes if necessary. Capacity for 8 shock tubes.
- Color coded according to detonator delay.
- The excellent accuracy of the delay time guarantees a probability of sequence initiation greater than 99%.
- Made of brightly colored shock tube (red or yellow) so that they are easily differentiated from common detonators when inspecting the connection.
- High impact protection.

## STANDARD TECHNICAL DESCRIPTION

Detonator	
Capsule material	Aluminium
Base load	120 mg
Water pressure resistance	0.3 MPa / 7 days
Application temperature range	from -30°C to +60°C
Labeling	Delay number, detonator type, delay ms, shock tube length, barcode and lot code (traceability), emergency number, product registration number (ANMaC)
Shock tube	
Detonation velocity	2,000 ± 100 m/s
Color	Yellow/Red

## STANDARD PACKAGING

Length (m)	Units/Box
4,2	100
6	100
9	75
15	50

Other shock tube lengths are possible on request  
 The Shock★Star Surface detonators are packaged in cardboard boxes of exterior dimensions 533 x 271 x 277 mm.

## USE

- Open pit mining
- Underground mining
- Quarries
- Civil Works and Demolitions

## SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is two years from the date of manufacture under suitable storage conditions.
- Recommended conditions: -30°C to +40°C, Relative Humidity max. 65%, in original package.
- Shock★Star Surface connectors should be stored in detonator magazines. Detonators cannot be stored in the same magazines as high explosives (cartridge emulsions, boosters, etc.) and blasting agents (ANFO). These magazines must comply with current legal requirements.
- Disposal: According to local regulations. If you have any questions, ask your provider.

Contact your local Austin Powder representative for further information.

**Disclaimer of Warranties and Limitations of Liabilities:** © 2023 Austin Powder Argentina S.A. All rights reserved. All information contained in this document is provided for informational purposes only and is subject to change without notice. Since the Austin Powder Argentina S.A. cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Austin Powder Argentina S.A. specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Austin Powder Argentina S.A. specifically disclaims and will not be responsible whatsoever for any and all injuries (including death), losses, or damages to persons or property resulting from the use or reliance upon the information in this document.

## TRANSPORT – UN CLASSIFICATION

Shipping Name: NON-ELECTRIC DETONATOR ASSEMBLIES  
 Class & Division: 1.1B  
 ID Number: UN 0360



**AUSTIN POWDER**

**Our Mission is to improve the world we live in through the safe and responsible use of explosives.**