

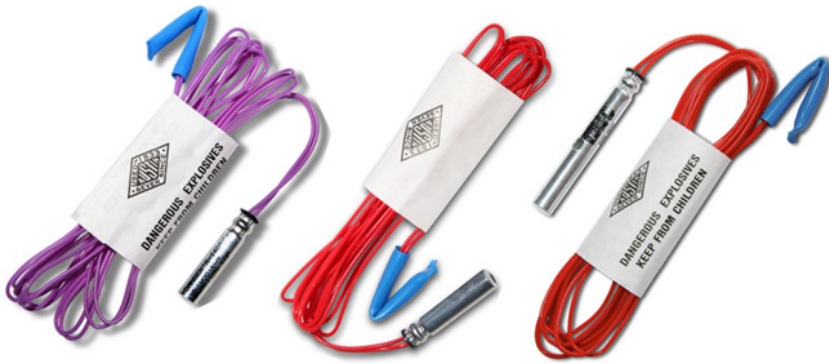


PRODUCT INFORMATION

BROCHURE

1.4B

THERMOSTABLE OIL DETONATORS



A-140 | A-140H | A-161

This family of detonators are designed for use in oil and gas industry for wireline performed blasting operations (perforations). These special instantaneous thermostable detonators are resistant to ultra-high temperatures up to 475° F for 1 hours (A-161). Detonators are also resistorized to be immune against sources of unwanted electric energy.

A-161 detonator is supplied with a protective tape, which is to BE REMOVED JUST PRIOR USE.

DO NOT REMOVE THE TAPE UNTIL IMMEDIATELY PRIOR TO USE.

PRODUCT OVERVIEW

PROPERTIES

Properties	A-140	A-140H	A-161
Length (in)	1.3	1.3	2.1
Diameter (in)	0.28	0.29	0.29
Wires (4 ft/Cu 22 gauge)	Teflon	Teflon	Teflon
Base charge	4.3 grain RDX	4.3 grain HMX	6.4 grain HNS
Resistance (Ω)	52-59	52-59	52-59
No fire current (A)	0.2	0.2	0.2
All fire current (A)*	0.6 to 3.0	0.6 to 3.0	0.6 to 3.0
Electrostatic immunity**	25 kV / 2,500 pF	25 kV / 2,500 pF	25 kV / 2,500 pF
Temperature ($^{\circ}$ F)***	- 40 to 350	- 40 to 392	- 40 to 475
Detonating cord adapter	No	No	No

* single detonator; ** double leg to shell; *** rated for 1 hour

PACKAGING

Type	Units / box (pcs.)	Brutto / Box (kg)
A-140	500	11.6
A-140H	500	12.5
A-161	500	12.2

Box size: 22x13.5x11.5 in (560x340x295 mm)

HANDLING

Keep detonators away from children. For use by authorized personnel only. Always dispose of detonators using proper methods. Consult your supervisor or Austin Powder representative.

SHELF LIFE, STORAGE & DISPOSAL

- Detonators must be stored in an approved magazine located to conform to state and local laws and regulations.
- The storage place should be well built, well ventilated, clean, dry, fire resistant and securely locked when not in use.
- Detonators should never be stored in the same magazine with other explosives.
- Shelf life (at temperature between -40° F and $+140^{\circ}$ F) is 5 years.

TRANSPORT - UN CLASSIFICATION

Shipping Name: Detonators, electric, for blasting
 Class & Division: 1.4B
 ID Number: UN0255

US DOT REFERENCE NUMBER

A-140 A-140H A-161
 EX199511002 EX2016120508 EX200107065

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

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