

Thermostable and fluid disabled oil detonators

A-85|A-140F|A-140S|A-161

PRODUCT INFORMATION BROCHURE

This family of detonators is used for applications where the detonator is protected from direct contact with the oil well environment. Their design enables them to withstand a high temperature environment. They provide the fluid disabled feature. This feature prevents an accidental low order detonation of the perforating gun. The fluid disabled function for the A-140S detonator is designed only for water pressure of at least 100 psi (0,7 MPa) and 10 minute exposure. Only the A-140F detonator is offered with a plastic block to accommodate detonating cord. The A-140F, A-140S and A-161 detonators are transported with a protective tape which is to BE REMOVED JUST PRIOR USE.



A-85

A-140F/Block

A-140S

A-161

SPECIFICATIONS

Type	A-85	A-140F Block	A-140S	A-161
Length (in)	2.7	1.9	1.3	2.1
Diameter (in)	0.34	0.29	0.29	0.29
Wires (4 ft/Cu 22 gauge)	Teflon	Teflon	Teflon	Teflon
Base charge	6.7 grain RDX	4.3 grain RDX	4.3 grain RDX	6.4 grain HNS
Resistance (Ω)	52-59	52-59	52-59	52-59
No fire current (A)	0.2	0.2	0.2	0.2
Firing current (A)*	0.6 to 3.0	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	25 kV/2,500 pF
Temperature ($^{\circ}$ F)**	- 40 to 350	- 40 to 350	- 40 to 350	- 40 to 475
Detonating cord adapter	80 grain	No****	No	No****

* single detonator; ** double leg to shell; *** max. temperature for 1 hour; **** optional



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STORAGE

Detonators must be stored in an approved magazine located to conform to state and local laws and regulations. The storage magazine 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° F) is 5 years.

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.

PACKAGING

Classification 1.4B, UN 0255

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

Type	Units / box (pcs.)	Brutto / Box (kg)
A-85	500	15.5
A-140F/Block	220	10.2
A-140S	500	12.8
A-161	500	12.2

TRANSPORTATION DATA

Shipping Name: Detonators, electric, for blasting

Class & Division: 1.4B

ID Number: UN 0255

US DOT REFERENCE NUMBERS:

A-85	A-140F	A-140S	A-161
EX199511002	EX200006204	EX2005020018	EX200107065

Contact your local Austin Powder representative for further information.

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AUSTIN POWDER

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