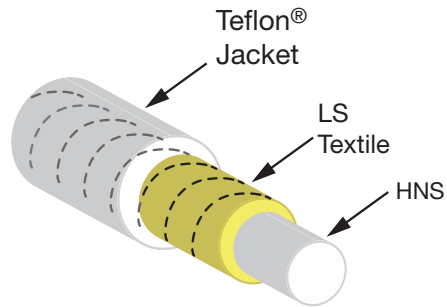


FireLine® 17/80 HNS LS

Oil Field Detonating Cord

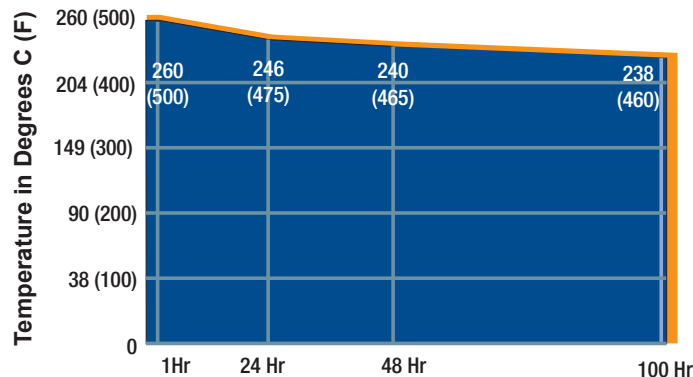


Product Description

FIRELINE 17/80 HNS LS is a flexible Ultra High Temperature detonating cord specifically developed for perforating systems that exceed the limits of FIRELINE 17/80 HMX. FIRELINE 17/80 HNS LS is Dyno Nobel's best detonating cord for use in ultra high temperature environments and is made from the highest purity HNS explosive feedstock commercially available with "shrinkage resistant" construction and a special extruded high temperature jacket. In addition, FIRELINE 17/80 HNS LS can be used in exposed service systems under certain conditions. Contact your Dyno Nobel representative for details.

Temperature Range

The temperatures listed are maximum values at ambient pressure.
DO NOT EXCEED.



Technical Information



MSDS
#1121

Properties

Explosive Core Load	17 g/m (80 gr/ft) nominal 15.3 g/m (72 gr/ft) minimum
Detonation Velocity	6400 m/s (21,000 ft/s) nominal 6200 m/s (20,340 ft/s) minimum
Shrinkage	1% maximum @ 246°C (475°F) in 24 hrs
Jacket Thickness	0.20 mm (0.008 in) minimum
Dimensions	5.33 mm (0.210 in) nominal ±0.20 mm (0.008 in)
Lap Joint Sensitive	No
Product Code	A585010 500 ft/spool A585003 100 ft/spool
Cord Components	HNS explosive core (yellow) Shrink resistant braid (yellow/gold) Two black stripes / Teflon® jacket (clear)

- **Temperature resistance** graph is based upon the manufacturer's laboratory tests in air, at ambient pressure only.
- **Temperature/Pressure** rating is 260°C (500°F) for 1 hour based on manufacturer's laboratory tests in air at ambient pressure. See graph.
- **Shrinkage** is defined as the overall decrease in length.
- **Velocity** was tested unconfined, at ambient pressure.

Hazardous Shipping Description

Cord, Detonating, 1.1D, UN 0065 II EX 2007120149
Cord, Detonating, 1.4S, UN 0349 II EX 1999010231

Alternative packaging: FIREPAK® 1.4S air cargo shipping containers

Product Code A585017 (FIREPAK only) and A585018 (FIREPAK and X-rayed

Articles, Explosive N.O.S., 1.4S UN 0349 II EX 1999010231



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S-31-04-29-11

See Product Disclaimer on page 2.

FireLine® 17/80 HNS LS

Technical Information



Transportation, Storage and Handling

- For maximum shelf-life, detonating cord must be stored in cool, dry, well-ventilated magazines. Explosives inventory should be rotated. Use older inventory first. Recommended shelf life, under proper storage conditions, is five (5) years from date of manufacture.
- FIRELINE detonating cords must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

Application Recommendations

- **This product is recommended for exposure to well bore fluids.**
- **ALWAYS** cut FIRELINE 17/80 HNS LS detonating cord with a razor blade.
- **NEVER** attempt to cut FIRELINE 17/80 HNS LS detonating cord with a blow from a sharp or blunt object, such as an axe, pipe wrench, or rock.
- **NEVER** saw 17/80 HNS LS detonating cord; it may explode and kill or injure.
- **NEVER** cut detonating cord with devices that produce metal-to-metal contact, such as scissors, wire cutters, crimpers or similar instruments.

NOTE: This product can be used at the temperatures and pressures detailed on page 1 and is well suited for use in exposed systems / conditions. FIRELINE 17/80 HNS LS has a similar flexibility of nylon jacketed FIRELINE required by some "High Shot Density" systems.

Packaging

Package	Gross Weight		Net Weight		Explosive Weight		Spools/ Case	Length/ Spool*	
	kg	lbs	kg	lbs	kg	lbs		m	ft
Fiberboard box	5.1	11.2	4.5	9.9	2.59	5.71	1	152	500
Airpack	16.9	37.2	4.5	9.9	2.59	5.71	1	152	500

- Weights represent nominal values.
- * $\pm 2\%$; 152m spools may contain as many as 3 pieces, totally 152 m, with a minimum splice/piece length of 8 m (25 ft).

X-Ray services are also available for high profile applications requiring an extra level of assurance. Product Code: A585011

Case Dimensions

26 x 26 x 14 cm 10 ¼ x 10 ¼ x 5 ½ in

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2650 Decker Lake Boulevard, Suite 300, Salt Lake City, Utah 84119 USA
Phone 800-732-7534 Fax 801-328-6452 Web www.dynonobel.com