

FlameShield™ Firesleeve: High Temperature, Heat, Flame, Fire & Molten Metal Resistant Protection for Hoses, Cables and Wires
500°F / 260°C Continuous Rating – Higher Temperature for Shorter Periods
Industrial Grade & Heavy Duty Grade: *Silicone Rubber Coated Fiberglass Sleeve*



Protection from:

- Heat
- Flame
- Fire
- Molten Metal Splash
- Welding Splatter & Sparks

FlameShield™ firesleeve is the recognized standard for heat, flame and fire protection for hoses, tubing, cables and wiring in harsh environments. Ideal for electric cables and gas hoses in welding applications.

Utilized in most industries with hot processes, liquid metal or welding operations to protect assets and prevent failures, prolonging the life of critical hoses, wires and cables, and reduce unexpected shutdowns.

Also protects personnel from hot or cold hoses and pipes.

Firesleeve can be double sleeved or undersleeved with uncoated braided or knitted sleeves for additional thermal protection.

Industrial grade FlameShield™ firesleeve has minimal radial elasticity (approx 5%) while the Heavy Duty grade has approximately 20% of elasticity, allowing it to pass over couplings and connectors.

The Heavy Duty version sleeve is also used to cover water-cooled high current EAF cables and cooling water hoses at metal processing plants due to the excellent molten metal splash and slag protection. Both Industrial and Heavy Duty sleeve are extremely flexible, pliable and conformable. Used for fuel, brake, oil and hydraulic line / hose protection on mobile construction equipment, mining equipment, rail cars, buses and emergency response vehicles.

Also an excellent cold temperature sleeve with flexibility to -76°C. See further material specifications on Page 1-8.

S-FSHD up to 5" / 127mm ID meets standards: UL 1441 VW-1, DIN EN ISO 15540, EN 45545, NF F 16-101, BS 6853, NF X 10-702, NF X 70 100 & NF X 70 200, BS EN ISO 11925, BS EN ISO 4589-2, BS EN 60695-2-11, ASTM D 2863 OI, DD CEN/TS 45545-2, ASTM G85 Type 2. Meets 14 CFR 25.869(a)(4); Appendix F, Part 1(b)(7) (60-degree flammability Test).

Industrial Grade firesleeve is fabricated from a E-type glass yarn that is **knitted** and the Heavy Duty Grade is fabricated from a dense E-type yarn that is **braided**. Both the knitted and braided firesleeve receive a thick coating of self-extinguishing silicone rubber that withstands liquid metal splash, flame, slag, sparks, and other hazards in the toughest of environments.

Standard lengths are 100 feet; specific cut lengths are available. Standard color is Oxide-Red in all sizes for both Industrial and Heavy Duty Grades; and Black is available in sizes from -04 through -48 in Heavy Duty Grade. Other colors may be available or can be ordered in lot quantity. Use ABST-LP-1 silicone rubber paint to add color markings. Nominal wall thickness is 0.140" for S-FSHD and 0.160" for S-FS.

FlameShield™ Firesleeve

500°F / 260°C continuous rating with weld splatter / molten metal splash protection.
 2200°F / 1205°C for periods up to 15 minutes and short excursions to 3000°F / 1650°C.

| FlameShield™ High Temperature Firesleeve: Industrial grade and Heavy Duty grade | | | | |
|--|-----|------|--------------------------------------|---------------------------------------|
| Nominal ID Inches / mm / Dash # | | | Industrial Grade Knit Part Number | Heavy Duty Grade Braid Part Number |
| 1/4 | 6 | -04 | S-FS-M006-04 | S-FSHD-M006-04-X |
| 5/16 | 8 | -05 | S-FS-M008-05 | S-FSHD-M008-05-X |
| 3/8 | 10 | -06 | S-FS-M010-06 | S-FSHD-M010-06-X |
| 7/16 | 11 | -07 | S-FS-M011-07 | S-FSHD-M011-07-X |
| 1/2 | 13 | -08 | S-FS-M013-08 | S-FSHD-M013-08-X |
| 9/16 | 15 | -09 | S-FS-M015-09 | S-FSHD-M015-09-X |
| 5/8 | 16 | -10 | S-FS-M016-10 | S-FSHD-M016-10-X |
| 11/16 | 17 | -11 | S-FS-M017-11 | S-FSHD-M017-11-X |
| 3/4 | 19 | -12 | S-FS-M019-12 | S-FSHD-M019-12-X |
| 13/16 | 20 | -13 | S-FS-M020-13 | S-FSHD-M020-13-X |
| 7/8 | 22 | -14 | S-FS-M022-14 | S-FSHD-M022-14-X |
| 1 | 25 | -16 | S-FS-M025-16 | S-FSHD-M025-16-X |
| 1 1/8 | 29 | -18 | S-FS-M029-18 | S-FSHD-M029-18-X |
| 1 1/4 | 32 | -20 | S-FS-M032-20 | S-FSHD-M032-20-X |
| 1 3/8 | 35 | -22 | S-FS-M035-22 | S-FSHD-M035-22-X |
| 1 1/2 | 38 | -24 | S-FS-M038-24 | S-FSHD-M038-24-X |
| 1 5/8 | 41 | -26 | S-FS-M041-26 | S-FSHD-M041-26-X |
| 1 3/4 | 44 | -28 | S-FS-M044-28 | S-FSHD-M044-28-X |
| 1 7/8 | 48 | -30 | S-FS-M048-30 | S-FSHD-M048-30-X |
| 2 | 51 | -32 | S-FS-M051-32 | S-FSHD-M051-32-X |
| 2 1/4 | 57 | -36 | S-FS-M057-36 | S-FSHD-M057-36-X |
| 2 3/8 | 60 | -38 | S-FS-M060-38 | S-FSHD-M060-38-X |
| 2 1/2 | 64 | -40 | S-FS-M064-40 | S-FSHD-M064-40-X |
| 2 5/8 | 67 | -42 | S-FS-M067-42 | S-FSHD-M067-42-X |
| 2 3/4 | 70 | -44 | S-FS-M070-44 | S-FSHD-M070-44-X |
| 2 7/8 | 73 | -46 | S-FS-M073-46 | S-FSHD-M073-46-X |
| 3 | 76 | -48 | S-FS-M076-48 | S-FSHD-M076-48-X |
| 3 1/4 | 83 | -52 | S-FS-M083-52 | S-FSHD-M083-52-X |
| 3 1/2 | 89 | -56 | S-FS-M089-56 | S-FSHD-M089-56-X |
| 3 3/4 | 95 | -60 | S-FS-M095-60 | S-FSHD-M095-60-X |
| 4 | 102 | -64 | S-FS-M102-64 | S-FSHD-M102-64-X |
| 4 1/2 | 114 | -72 | S-FS-M114-72 | S-FSHD-M114-72-X |
| 5 | 127 | -80 | S-FS-M127-80 | S-FSHD-M127-80-X |
| 5 1/2 | 140 | -87 | S-FS-M140-87 | S-FSHD-M140-87 |
| 6 | 152 | -96 | S-FS-M152-96 | S-FSHD-M152-96 |
| 8 | 203 | -128 | S-FS-M203-128 | S-FSHD-M203-128 |
| 10 | 254 | -160 | S-FS-M254-160 | S-FSHD-M254-160 |
| 12 | 305 | -193 | S-FS-M305-193 | S-FSHD-M305-193 |
| 14 | 356 | -225 | S-FS-M356-225 | S-FSHD-M356-225 |
| 16 | 406 | -257 | S-FS-M406-257 | S-FSHD-M406-257 |

- For 6" ID and larger, the size is customizable - the sizes shown above in the table are example sizes and pricing. Sizes up to 120" ID are available - Priced by quotation.
- On-site custom fabrication over non-moveable or non-disconnectable hoses and pipes is available.

Standard color is Oxide-Red for S-FS. Oxide-red and Black is available for S-FSHD.

Other colors such as Silver/Grey, Yellow, Green and Blue are available – minimums may apply..

Add the color code after the part number. For the "-X" value above in the part number use "-OR" for Oxide-Red or "-BK" for Black

**Sizes up to 5" ID are available By-The-Foot / Metre or in standard 100 foot / 30 metre lengths
 Larger diameters up to 6" ID may also be available in 50 foot / 15 metre lengths**