

SAFETY THROUGH **SCIENCE**

GUARANTEED RELIABILITY
UNDER PRESSURE



PROTECTIVE SLEEVE WEBBING

POWERITE® PROTECTIVE SLEEVING has undergone exhaustive research and development to ensure it meets stringent international requirements and demonstrates performance that is significantly improved over many current products available. **Setting a new standard in quality, safety and reliability for use in the protection of hose systems.**

QUALITY ASSURED

High quality materials and superior manufacturing processes allow for a world class product performance which is supported by accreditation from MSHA and industry testing facilities. This provides the products' key properties of flame retardency, electrical conductivity and high abrasion resistance. Comparative testing confirms the superior performance of the Powerite® Protective Sleeving and its performance criteria when measured against the relevant specifications.

ACCREDITATION

Webbing Products is ISO 9001:2015 certified with its quality management system key in producing high quality products for global supply. The Powerite® protective sleeving has also received MSHA approval, and has been vigorously tested at specialist industry test facilities to the highest specifications, providing our customers with peace of mind.



CONSTRUCTION

- Powerite® protective sleeving is manufactured using twisted continuous polyamide yarn tightly woven providing best strength, impact resistance and abrasion characteristics over other standard and texturised yarns. The melting point of the polyamide utilised is 220°C. Working temperatures range from -40°C to 150°C. UV resistant according to AS 1891.
- Powerite® protective sleeving is available in black as standard, while other colours can be manufactured to order and are available in the following range:

FEATURES & BENEFITS

PIN HOLE AND BURST RESISTANCE

The Powerite® protective sleeving is designed to disperse high pressure pin hole bursts or failure experienced by hydraulic hoses as well as to limit damage from such failures.

The sleeving is designed to allow dispersed fluid to weep through the sleeving and the channel end clamps to prevent dangerous build-up of pressure and to visibly warn operators of a malfunction.

Powerite® protective sleeving has been subjected to pressures of 400 bar (5 800 Psi) from a 1mm jet of fluid while safely diffusing the fluid energy.

It is important to note that the use of the correct sleeving size is critical to ensuring the correct fluid dispersal.

ABRASION RESISTANCE

The combination of materials utilised, product design and tight weave provide the Powerite® protective sleeving with excellent abrasion resistance perfectly suited to protect hosing applications in harsh environments, while still allowing for ease of use given the flexible nature of the textile.

The Powerite® protective sleeving provides superior results and is tested to and conforms to the requirements of ISO 6945. When tested, the sleeving endured in excess of 150 000 cycles without perforation.

The Powerite® protective sleeving also experienced no loss of material when measured in terms of ISO 6805. ISO 6805 requires the sleeving to have achieved no loss of material greater than 1 gram when subjected to an applied load on the blade for 2 000 cycles.

When tested against the seat belt abrasion standard SAE J386, the Powerite® protective sleeving conformed to the test requirements after exceeding 75 000 cycles and maintains its excellent flame retardant and anti-static properties.

FLAME RETARDENCY

The Powerite® protective sleeving exceeds the performance levels required in terms of ISO 6805 when tested to ISO 8030 and self-extinguishes in less than 30 seconds.

It also meets the requirements of MDG41 for use in underground coal mines.

Powerite® protective sleeving has received Mine Safety and Health Administration (MSHA) approval for flame resistance. Approval numbers IC-319/1 and IC-319/2.

ELECTRICAL CONDUCTIVITY

When tested in accordance with ISO 8031, the Powerite® protective sleeving achieves excellent results, well below one mega ohm per meter and as such provides an outstanding rationale for use within many applications, and specifically, within the underground coal mining industry.

Powerite® protective sleeving easily complies with both the requirements of ISO 6805 and MDG41, being less than two mega ohm and one mega ohm per meter respectively.



CONTACT DETAILS

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The purpose of this document is to detail specifications, test results and limits of the Powerite® protective sleeving range. As such, the information provided is only relevant to use within the product design and may not be relevant should the product be utilised in any improper manner.

PROTECTIVE SLEEVE WEBBING

STOCK CODE	PRODUCT DESCRIPTION	WIDTH (MM)	BREAK STRENGTH (KG)	WEAVE TYPE	POPULAR COLOUR	NATURAL	STIFFENED	PIGMENTED	DYED
						• DENOTES STANDARD PRODUCTS			

FLAME RETARDANT & ANTI STATIC

C2142	Nylon Powerite® Tubular Protective Sleeve	32	n/a	Tubular	Black				•
C2143	Nylon Powerite® Tubular Protective Sleeve	40	n/a	Tubular	Black				•
C2144	Nylon Powerite® Tubular Protective Sleeve	50	n/a	Tubular	Black				•
C2145	Nylon Powerite® Tubular Protective Sleeve	61	n/a	Tubular	Black				•
C2146	Nylon Powerite® Tubular Protective Sleeve	67	n/a	Tubular	Black				•
C2147	Nylon Powerite® Tubular Protective Sleeve	75	n/a	Tubular	Black				•
C2148	Nylon Powerite® Tubular Protective Sleeve	92	n/a	Tubular	Black				•
C2149	Nylon Powerite® Tubular Protective Sleeve	103	n/a	Tubular	Black				•
C2150	Nylon Powerite® Tubular Protective Sleeve	116	n/a	Tubular	Black				•
C2151	Nylon Powerite® Tubular Protective Sleeve	150	n/a	Tubular	Black				•
C2152	Nylon Powerite® Tubular Protective Sleeve	177	n/a	Tubular	Black				•
C2153	Nylon Powerite® Tubular Protective Sleeve	287	n/a	Tubular	Black				•
C2183	Polyester Powerite® Tubular Protective Sleeve	32	n/a	Tubular	Black				•
C2184	Polyester Powerite® Tubular Protective Sleeve	40	n/a	Tubular	Black				•
C2185	Polyester Powerite® Tubular Protective Sleeve	50	n/a	Tubular	Black				•
C2181	Polyester Powerite® Tubular Protective Sleeve	65	n/a	Tubular	Black				•
C2186	Polyester Powerite® Tubular Protective Sleeve	67	n/a	Tubular	Black				•
C2187	Polyester Powerite® Tubular Protective Sleeve	75	n/a	Tubular	Black				•
C2188	Polyester Powerite® Tubular Protective Sleeve	92	n/a	Tubular	Black				•
C2189	Polyester Powerite® Tubular Protective Sleeve	103	n/a	Tubular	Black				•
C2190	Polyester Powerite® Tubular Protective Sleeve	116	n/a	Tubular	Black				•
C2191	Polyester Powerite® Tubular Protective Sleeve	150	n/a	Tubular	Black				•
C2192	Polyester Powerite® Tubular Protective Sleeve	177	n/a	Tubular	Black				•
C2193	Polyester Powerite® Tubular Protective Sleeve	287	n/a	Tubular	Black				•

FLAME RETARDANT

C2246	Nylon Powerite® Tubular Protective Sleeve	32	n/a	Tubular	Black				•
C2243	Nylon Powerite® Tubular Protective Sleeve	34	n/a	Tubular	Black				•
C2244	Nylon Powerite® Tubular Protective Sleeve	39	n/a	Tubular	Black				•
C2257	Nylon Powerite® Tubular Protective Sleeve	44	n/a	Tubular	Black				•
C2246	Nylon Powerite® Tubular Protective Sleeve	50	n/a	Tubular	Black				•
C2258	Nylon Powerite® Tubular Protective Sleeve	54	n/a	Tubular	Black				•
C2248	Nylon Powerite® Tubular Protective Sleeve	60	n/a	Tubular	Black				•
C2259	Nylon Powerite® Tubular Protective Sleeve	68	n/a	Tubular	Black				•
C2254	Nylon Powerite® Tubular Protective Sleeve	75	n/a	Tubular	Black				•
C2250	Nylon Powerite® Tubular Protective Sleeve	86	n/a	Tubular	Black				•
C2251	Nylon Powerite® Tubular Protective Sleeve	90	n/a	Tubular	Black				•
C2260	Nylon Powerite® Tubular Protective Sleeve	99	n/a	Tubular	Black				•
C2252	Nylon Powerite® Tubular Protective Sleeve	110	n/a	Tubular	Black				•
C2262	Nylon Powerite® Tubular Protective Sleeve	117	n/a	Tubular	Black				•
C2256	Nylon Powerite® Tubular Protective Sleeve	136	n/a	Tubular	Black				•
C2263	Polyester Powerite® Tubular Protective Sleeve	32	n/a	Tubular	Black				•
C2264	Polyester Powerite® Tubular Protective Sleeve	44	n/a	Tubular	Black				•
C2265	Polyester Powerite® Tubular Protective Sleeve	50	n/a	Tubular	Black				•
C2266	Polyester Powerite® Tubular Protective Sleeve	54	n/a	Tubular	Black				•
C2267	Polyester Powerite® Tubular Protective Sleeve	68	n/a	Tubular	Black				•
C2268	Polyester Powerite® Tubular Protective Sleeve	75	n/a	Tubular	Black				•
C2269	Polyester Powerite® Tubular Protective Sleeve	86	n/a	Tubular	Black				•
C2270	Polyester Powerite® Tubular Protective Sleeve	99	n/a	Tubular	Black				•
C2271	Polyester Powerite® Tubular Protective Sleeve	106	n/a	Tubular	Black				•
C2272	Polyester Powerite® Tubular Protective Sleeve	117	n/a	Tubular	Black				•
C2273	Polyester Powerite® Tubular Protective Sleeve	136	n/a	Tubular	Black				•