

# 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 100°C with peaks up 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 8031 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	FLAT WIDTH (MM)	INTERNAL DIAMETER (MM)	FLAT WIDTH (INCHES)	INTERNAL DIAMETER (INCHES)	WEAVE TYPE	POPULAR COLOUR
*Other colour options are available on request							
<b>FLAME RETARDANT &amp; ANTI STATIC</b>							
C2335	Nylon Tubular Protective Sleeve	20	13	4/5	1/2	Tubular	Black
C2336	Nylon Tubular Protective Sleeve	25	14	1	5/9	Tubular	Black
C2142	Nylon Tubular Protective Sleeve	32	19	1 1/4	3/4	Tubular	Black
C2337	Nylon Tubular Protective Sleeve	36	20	1 3/7	4/5	Tubular	Black
C2143	Nylon Tubular Protective Sleeve	39	22	1 1/2	6/7	Tubular	Black
C2338	Nylon Tubular Protective Sleeve	46	25	1 4/5	1	Tubular	Black
C2144	Nylon Tubular Protective Sleeve	50	28	2	1 1/9	Tubular	Black
C2340	Nylon Tubular Protective Sleeve	55	32	2 1/6	1 1/4	Tubular	Black
C2342	Nylon Tubular Protective Sleeve	60	35	2 1/3	1 3/8	Tubular	Black
C2145	Nylon Tubular Protective Sleeve	62	36	2 4/9	1 3/7	Tubular	Black
C2146	Nylon Tubular Protective Sleeve	66	40	2 3/5	1 4/7	Tubular	Black
C2344	Nylon Tubular Protective Sleeve	70	42	2 3/4	1 2/3	Tubular	Black
C2147	Nylon Tubular Protective Sleeve	76	45	3	1 7/9	Tubular	Black
C2395	Nylon Tubular Protective Sleeve	79	47	3 1/9	1 6/7	Tubular	Black
C2345	Nylon Tubular Protective Sleeve	82	50	3 2/9	2	Tubular	Black
C2346	Nylon Tubular Protective Sleeve	86	53	3 2/5	2	Tubular	Black
C2148	Nylon Tubular Protective Sleeve	92	56	3 5/8	2 1/5	Tubular	Black
C2348	Nylon Tubular Protective Sleeve	99	60	3 8/9	2 1/3	Tubular	Black
C2149	Nylon Tubular Protective Sleeve	104	63	4	2 1/2	Tubular	Black
C2350	Nylon Tubular Protective Sleeve	110	68	4 1/3	2 2/3	Tubular	Black
C2150	Nylon Tubular Protective Sleeve	116	70	4 4/7	2 3/4	Tubular	Black
C2352	Nylon Tubular Protective Sleeve	121	73	4 3/4	2 7/8	Tubular	Black
C2354	Nylon Tubular Protective Sleeve	128	75	5	3	Tubular	Black
C2396	Nylon Tubular Protective Sleeve	132	80	5 1/5	3 1/7	Tubular	Black
C2355	Nylon Tubular Protective Sleeve	136	85	5 1/3	3 1/3	Tubular	Black
C2357	Nylon Tubular Protective Sleeve	147	90	5 4/5	3 1/2	Tubular	Black
C2151	Nylon Tubular Protective Sleeve	152	93	6	3 2/3	Tubular	Black
C2359	Nylon Tubular Protective Sleeve	166	102	6 1/2	4	Tubular	Black
C2152	Nylon Tubular Protective Sleeve	179	110	7	4 1/3	Tubular	Black
C2403	Nylon Tubular Protective Sleeve	203	125	8	5	Tubular	Black
C2404	Nylon Tubular Protective Sleeve	227	140	9	5 1/2	Tubular	Black
C2363	Nylon Tubular Protective Sleeve	242	150	9 1/2	6	Tubular	Black
C2153	Nylon Tubular Protective Sleeve	292	180	11 1/2	7	Tubular	Black
C2281	Polyester Tubular Protective Sleeve	20	13	4/5	1/2	Tubular	Black
C2285	Polyester Tubular Protective Sleeve	25	14	1	5/9	Tubular	Black
C2183	Polyester Tubular Protective Sleeve	32	19	1 1/4	3/4	Tubular	Black
C2289	Polyester Tubular Protective Sleeve	36	20	1 3/7	4/5	Tubular	Black
C2184	Polyester Tubular Protective Sleeve	39	22	1 1/2	6/7	Tubular	Black
C2292	Polyester Tubular Protective Sleeve	46	25	1 4/5	1	Tubular	Black
C2185	Polyester Tubular Protective Sleeve	50	28	2	1 1/9	Tubular	Black
C2294	Polyester Tubular Protective Sleeve	55	32	2 1/6	1 1/4	Tubular	Black
C2297	Polyester Tubular Protective Sleeve	60	35	2 1/3	1 3/8	Tubular	Black
C2181	Polyester Tubular Protective Sleeve	62	36	2 4/9	1 3/7	Tubular	Black
C2186	Polyester Tubular Protective Sleeve	66	40	2 3/5	1 4/7	Tubular	Black
C2301	Polyester Tubular Protective Sleeve	70	42	2 3/4	1 2/3	Tubular	Black
C2187	Polyester Tubular Protective Sleeve	76	45	3	1 7/9	Tubular	Black
C2391	Polyester Tubular Protective Sleeve	79	47	3 1/9	1 6/7	Tubular	Black
C2302	Polyester Tubular Protective Sleeve	82	50	3 2/9	2	Tubular	Black
C2305	Polyester Tubular Protective Sleeve	86	53	3 2/5	2	Tubular	Black
C2188	Polyester Tubular Protective Sleeve	92	56	3 5/8	2 1/5	Tubular	Black
C2308	Polyester Tubular Protective Sleeve	99	60	3 8/9	2 1/3	Tubular	Black
C2189	Polyester Tubular Protective Sleeve	104	63	4	2 1/2	Tubular	Black
C2312	Polyester Tubular Protective Sleeve	110	68	4 1/3	2 2/3	Tubular	Black
C2190	Polyester Tubular Protective Sleeve	116	70	4 4/7	2 3/4	Tubular	Black
C2314	Polyester Tubular Protective Sleeve	121	73	4 3/4	2 7/8	Tubular	Black
C2315	Polyester Tubular Protective Sleeve	128	75	5	3	Tubular	Black
C2392	Polyester Tubular Protective Sleeve	132	80	5 1/5	3 1/7	Tubular	Black
C2317	Polyester Tubular Protective Sleeve	136	85	5 1/3	3 1/3	Tubular	Black
C2318	Polyester Tubular Protective Sleeve	147	90	5 4/5	3 1/2	Tubular	Black
C2191	Polyester Tubular Protective Sleeve	152	93	6	3 2/3	Tubular	Black
C2333	Polyester Tubular Protective Sleeve	166	102	6 1/2	4	Tubular	Black
C2192	Polyester Tubular Protective Sleeve	179	110	7	4 1/3	Tubular	Black
C2399	Polyester Tubular Protective Sleeve	203	125	8	5	Tubular	Black
C2400	Polyester Tubular Protective Sleeve	227	140	9	5 1/2	Tubular	Black
C2362	Polyester Tubular Protective Sleeve	242	150	9 1/2	6	Tubular	Black
C2193	Polyester Tubular Protective Sleeve	292	180	11 1/2	7	Tubular	Black
<b>FLAME RETARDANT</b>							
C2276	Nylon Tubular Protective Sleeve	20	13	4/5	1/2	Tubular	Black
C2277	Nylon Tubular Protective Sleeve	25	14	1	5/9	Tubular	Black
C2242	Nylon Tubular Protective Sleeve	32	19	1 1/4	3/4	Tubular	Black
C2243	Nylon Tubular Protective Sleeve	36	20	1 3/7	4/5	Tubular	Black
C2244	Nylon Tubular Protective Sleeve	39	22	1 1/2	6/7	Tubular	Black
C2245	Nylon Tubular Protective Sleeve	46	25	1 4/5	1	Tubular	Black
C2246	Nylon Tubular Protective Sleeve	50	28	2	1 1/9	Tubular	Black
C2339	Nylon Tubular Protective Sleeve	55	32	2 1/6	1 1/4	Tubular	Black
C2341	Nylon Tubular Protective Sleeve	60	35	2 1/3	1 3/8	Tubular	Black
C2248	Nylon Tubular Protective Sleeve	62	36	2 4/9	1 3/7	Tubular	Black
C2249	Nylon Tubular Protective Sleeve	66	40	2 3/5	1 4/7	Tubular	Black
C2343	Nylon Tubular Protective Sleeve	70	42	2 3/4	1 2/3	Tubular	Black
C2254	Nylon Tubular Protective Sleeve	76	45	3	1 7/9	Tubular	Black
C2393	Nylon Tubular Protective Sleeve	79	47	3 1/9	1 6/7	Tubular	Black
C2235	Nylon Tubular Protective Sleeve	82	50	3 2/9	2	Tubular	Black
C2250	Nylon Tubular Protective Sleeve	86	53	3 2/5	2	Tubular	Black
C2347	Nylon Tubular Protective Sleeve	92	56	3 5/8	2 1/5	Tubular	Black
C2251	Nylon Tubular Protective Sleeve	99	60	3 8/9	2 1/3	Tubular	Black
C2349	Nylon Tubular Protective Sleeve	104	63	4	2 1/2	Tubular	Black
C2252	Nylon Tubular Protective Sleeve	110	68	4 1/3	2 2/3	Tubular	Black
C2351	Nylon Tubular Protective Sleeve	116	70	4 4/7	2 3/4	Tubular	Black
C2253	Nylon Tubular Protective Sleeve	121	73	4 3/4	2 7/8	Tubular	Black
C2353	Nylon Tubular Protective Sleeve	128	75	5	3	Tubular	Black
C2394	Nylon Tubular Protective Sleeve	132	80	5 1/5	3 1/7	Tubular	Black
C2256	Nylon Tubular Protective Sleeve	136	85	5 1/3	3 1/3	Tubular	Black
C2356	Nylon Tubular Protective Sleeve	147	90	5 4/5	3 1/2	Tubular	Black
C2358	Nylon Tubular Protective Sleeve	152	93	6	3 2/3	Tubular	Black
C2258	Nylon Tubular Protective Sleeve	166	102	6 1/2	4	Tubular	Black
C2361	Nylon Tubular Protective Sleeve	179	110	7	4 1/3	Tubular	Black
C2401	Nylon Tubular Protective Sleeve	203	125	8	5	Tubular	Black
C2402	Nylon Tubular Protective Sleeve	227	140	9	5 1/2	Tubular	Black
C2259	Nylon Tubular Protective Sleeve	242	150	9 1/2	6	Tubular	Black
C2365	Nylon Tubular Protective Sleeve	292	180	11 1/2	7	Tubular	Black
C2279	Polyester Tubular Protective Sleeve	20	13	4/5	1/2	Tubular	Black
C2283	Polyester Tubular Protective Sleeve	25	14	1	5/9	Tubular	Black
C2287	Polyester Tubular Protective Sleeve	32	19	1 1/4	3/4	Tubular	Black
C2278	Polyester Tubular Protective Sleeve	36	20	1 3/7	4/5	Tubular	Black
C2280	Polyester Tubular Protective Sleeve	39	22	1 1/2	6/7	Tubular	Black
C2282	Polyester Tubular Protective Sleeve	46	25	1 4/5	1	Tubular	Black
C2284	Polyester Tubular Protective Sleeve	50	28	2	1 1/9	Tubular	Black
C2286	Polyester Tubular Protective Sleeve	55	32	2 1/6	1 1/4	Tubular	Black
C2288	Polyester Tubular Protective Sleeve	60	35	2 1/3	1 3/8	Tubular	Black
C2299	Polyester Tubular Protective Sleeve	62	36	2 4/9	1 3/7	Tubular	Black
C2290	Polyester Tubular Protective Sleeve	66	40	2 3/5	1 4/7	Tubular	Black
C2291	Polyester Tubular Protective Sleeve	70	42	2 3/4	1 2/3	Tubular	Black
C2293	Polyester Tubular Protective Sleeve	76	45	3	1 7/9	Tubular	Black
C2389	Polyester Tubular Protective Sleeve	79	47	3 1/9	1 6/7	Tubular	Black
C2295	Polyester Tubular Protective Sleeve	82	50	3 2/9	2	Tubular	Black
C2304	Polyester Tubular Protective Sleeve	86	53	3 2/5	2	Tubular	Black
C2307	Polyester Tubular Protective Sleeve	92	56	3 5/8	2 1/5	Tubular	Black
C2296	Polyester Tubular Protective Sleeve	99	60	3 8/9	2 1/3	Tubular	Black
C2310	Polyester Tubular Protective Sleeve	104	63	4	2 1/2	Tubular	Black
C2311	Polyester Tubular Protective Sleeve	110	68	4 1/3	2 2/3	Tubular	Black
C2298	Polyester Tubular Protective Sleeve	116	70	4 4/7	2 3/4	Tubular	Black
C2313	Polyester Tubular Protective Sleeve	121	73	4 3/4	2 7/8	Tubular	Black
C2300	Polyester Tubular Protective Sleeve	128	75	5	3	Tubular	Black
C2390	Polyester Tubular Protective Sleeve	132	80	5 1/5	3 1/7	Tubular	Black
C2316	Polyester Tubular Protective Sleeve	136	85	5 1/3	3 1/3	Tubular	Black
C2303	Polyester Tubular Protective Sleeve	147	90	5 4/5	3 1/2	Tubular	Black
C2319	Polyester Tubular Protective Sleeve	152	93	6	3 2/3	Tubular	Black
C2306	Polyester Tubular Protective Sleeve	166	102	6 1/2	4	Tubular	Black
C2360	Polyester Tubular Protective Sleeve	179	110	7	4 1/3	Tubular	Black
C2397	Polyester Tubular Protective Sleeve	203	125	8	5	Tubular	Black
C2398	Polyester Tubular Protective Sleeve	227	140	9	5 1/2	Tubular	Black
C2309	Polyester Tubular Protective Sleeve	242	150	9 1/2	6	Tubular	Black
C2364	Polyester Tubular Protective Sleeve	292	180	11 1/2	7	Tubular	Black