

Braided sleeves are commonly used for torsion applications or products with varying cross section. Common applications of various diameters and non-circular pipes/tubes, orthopaedic appliances, sport equipment, structural and curved beams. The sleeve diameter can be varied by compressing or stretching the biaxial braid.

The mandrel for the braided sleeves may be different:

- Solid cores (metal, wood)
- Foam
- inflatable bladders
- Water-soluble

Braided sleeves is ideal for technologies such as hand lay up, RTM and compression molding. Our standard materials are compatible with epoxy, polyester and vinylester resins.



### Features and advantages

- High delamination resistance
- Advanced impact strength
- Advanced fatigue properties
- High strength close to holes and fixture elements

Article	Style	Carriers	Type of fiber	Width (min/max), mm	Diameter (min/max), mm	Diameter @ 45°, mm	Thickness, mm	Weight 1 m., g
<b>Carbon sleeve</b>								
ARC 1001	Carbon sleeve AR10 (3K)	36	Carbon fiber 3K	7 (5-17)	4 (3-10)	9 ± 1	0,9 ± 0,1	6 ± 1
ARC 1002	Carbon sleeve AR15 (3K)	48	Carbon fiber 3K	11 (9-29)	7 (5-18)	14 ± 1	0,8 ± 0,1	9 ± 1
ARC 101	Carbon sleeve AR40 (3K)	144	Carbon fiber 3K	38 (31-81)	24 (19-51)	42 ± 2	0,7 ± 0,1	32 ± 5
ARC 102	Carbon sleeve AR30 (3K)	72	Carbon fiber 3K	18 (14-52)	11 (8-35)	32 ± 2	0,7 ± 0,1	15 ± 2
ARC 103	Carbon sleeve AR40 (12K)	72	Carbon fiber 12K	34 (29-84)	21 (18-53)	42 ± 3	1,4 ± 0,1	62 ± 5
ARC 104	Carbon sleeve AR45 (3K)	108	Carbon fiber 3K	32 (24-104)	20 (15-65)	45 ± 3	0,6 ± 0,1	22 ± 3
ARC 105	Carbon sleeve AR80 (12K)	144	Carbon fiber 12K	66 (61-145)	41 (38-92)	74 ± 2	1,4 ± 0,1	129 ± 5
ARC 106	Carbon sleeve AR100 (12K)	144	Carbon fiber 12K	70 (62-205)	44 (30-130)	99 ± 2	1,35 ± 0,1	122 ± 5
ARC 107	Carbon sleeve AR120 (12K)	144	Carbon fiber 12K	90 (70-250)	57 (44-159)	120 ± 4	1,0 ± 0,3	120 ± 5
ARC 108	Carbon sleeve AR150 (12K)	144	Carbon fiber 12K	90 (60-330)	57 (37-209)	150 ± 5	1,0 ± 0,3	118 ± 5
ARC 109	Carbon sleeve AR230 (24K)	144	Carbon fiber 24K	140 (110-500)	88 (70-318)	230 ± 5	1,2 ± 0,3	270 ± 5
<b>Glass sleeves</b>								
ARG 201	Glass sleeve AR45 (300)	144	Glass fiber 300 tex	41 (33-85)	25 (20-54)	45 ± 3	0,8 ± 0,1	47 ± 3
ARG 202	Glass sleeve AR30 (300)	72	Glass fiber 300 tex	19 (14-66)	12 (8-42)	33 ± 2	0,7 ± 0,1	23 ± 2
ARG 203	Glass sleeve AR55 (300)	144	Glass fiber 300 tex	37 (30-110)	23 (19-70)	55 ± 3	0,8 ± 0,1	47 ± 3
ARG 204	Glass sleeve AR45 (300)	108	Glass fiber 300 tex	25 (20-102)	15 (12-64)	45 ± 3	0,8 ± 0,1	33 ± 3
<b>Hybrid sleeves</b>								
ARH 401	Hybrid sleeve AR50 (G75C25)	144	Glass fiber 300 tex (75%) Carbon fiber 3K (25%)	37 (30-100)	23 (19-63)	50 ± 3	0,8 ± 0,1	44 ± 2
ARH 402	Hybrid sleeve AR50 (G50C50)	144	Glass fiber 300 tex (50%) Carbon fiber 3K (50%)	36 (30-105)	22 (19-66)	50 ± 3	0,8 ± 0,1	47 ± 2
ARH 403	Hybrid sleeve AR50 (G50C50)	144	Glass fiber 300 tex (50%) Carbon fiber 3K (50%)	36 (30-105)	22 (19-66)	50 ± 3	0,8 ± 0,1	47 ± 2
ARH 404	Hybrid sleeve AR50 (A50C50)	144	Aramid fiber 300 tex (50%) Carbon fiber 3K (50%)	43 (35-95)	27 (22-60)	53 ± 3	0,8 ± 0,1	38 ± 2
<b>Flax sleeves</b>								
ARF 501	Flax sleeve AR110 (2000)	72	Flax fiber 2000 tex	95 (60-195)	59 (36-122)	110 ± 3	2,0 ± 0,3	150 ± 5
<b>UD elastic sleeves</b>								
AR UD 601	UD carbon elastic sleeve AR30 (12K)	72	Carbon fiber 12K	-	30 (23-50)	-	1,5 ± 0,3	60 ± 3

### Storage conditions

Preforms must be stored in a package at room temperature and humidity 85% max

### Certification

All preforms produced LLC Artek Braiding have quality certificates

### Safety

Safety data sheet (SDS) is presented with the first shipment. Please read it carefully before using our product

*The information refers to the specified products only. Please obtain manufacturer's recommendations before using the material. LLC Artek Braiding shall not be responsible and copying of provided data.*