



AEROFLEX®

hf

| | | |
|--|--|--------------------------------------|
| MATERIAL | AEROFLEX® hf jest bezhalogenowym, elastycznym, zamkniętokomórkowym materiałem izolacyjnym na bazie EPDM. | |
| DLUGOŚĆ | 2 m | |
| PRZEWODNOŚĆ CIEPLNA (EN ISO 8497) | 0,036 W/mK przy 0 °C 0,037 W/mK przy 10 °C 0,040 W/mK przy 40 °C | |
| ZAKRES TEMPERATUR (EN 14707) | -50 °C do 125 °C (praca ciągła – maksymalnie do 175 °C) | |
| ODPORNOŚĆ NA OGIEŃ (EN 13501-1) | D ₁ -s2,d0 | |
| ODPORNOŚĆ NA DYFUZJĘ PARY WODNEJ (EN 13469) | ≥ 3.000 μ | |
| OBSZARY ZASTOSOWAŃ | Systemy grzewcze i hydrauliczne Klimatyzacja | Systemy chłodzenia budowa statków |
| CERTYFIKACJA MORSKA | AEROFLEX® hf został uznany za zgodny z: DNV GL offshore standards Zasady klasyfikacji DNV GL - Statki Interpretacje ustawowe DNV GL DNVGL-SI-0364 - Interpretacje SOLAS | |

| | |
|---------------|--|
| ZALETY | <ul style="list-style-type: none">▪ Bezhalogenowy EPDM▪ Dzięki swoim doskonałym właściwościom termoizolacyjnym, produkt umożliwia znaczną redukcję zużycia energii w układach klimatyzacyjnych i chłodniczych, a także instalacjach sanitarnych i grzewczych▪ Większa efektywność ekonomiczna i ekologiczna całej jednostki▪ Certyfikat UL▪ Zatwierdzenie statku |
|---------------|--|

Deklaracja właściwości użytkowych – zob. strona internetowa: www.nmc-insulation.com



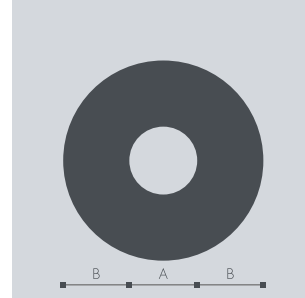
NMC Polska

ul. Pyskowska 15 · PL-41807 Zabrze
Phone : +48 32 373 24 40 · Fax : +48 32 373 24 43
E-Mail: biuro@nmc.pl
www.nmc-insulation.com



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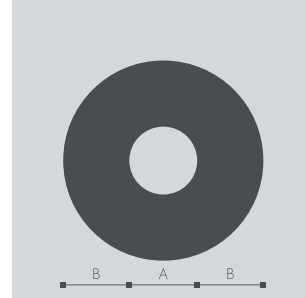
hf



| Type | Miedź CU | | Stal FE | | | Tworzywo szluczne | A mm | B mm | m/karton m |
|---------|----------|--------------------|----------|--------------------|-------|--------------------|---------|---------|---------------|
| | NW DN | Ø zewnętrzna mm | NW DN | Ø zewnętrzna mm | inch | Ø zewnętrzna mm | | | |
| 6 x 9 | 4 | 6 | - | - | - | - | 6 | 9 | 264 |
| 8 x 9 | - | 8 | - | - | - | - | 8 | 9 | 220 |
| 10 x 9 | 8 | 10 | 6 | 10,2 | 1/8 | - | 10 | 9 | 220 |
| 12 x 9 | 10 | 12 | - | - | - | - | 12 | 9 | 168 |
| 15 x 9 | 10 | 15 | 8 | 13,5 | 1/4 | - | 15 | 9 | 140 |
| 18 x 9 | 15 | 18 | 10 | 17,2 | 3/8 | 16 | 18 | 9 | 120 |
| 22 x 9 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 9 | 108 |
| 25 x 9 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 9 | 88 |
| 28 x 9 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 9 | 72 |
| 32 x 9 | - | - | - | - | 1 | 32 | 32 | 9 | 68 |
| 35 x 9 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 9 | 64 |
| 42 x 9 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 9 | 56 |
| 45 x 9 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 9 | 48 |
| 48 x 9 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 9 | 40 |
| 54 x 9 | 50 | 54 | - | 54 | - | 50 | 54 | 9 | 36 |
| 57 x 9 | - | - | - | - | - | - | 57 | 9 | 36 |
| 60 x 9 | - | - | 50 | 60,3 | 2 | - | 60 | 9 | 36 |
| 64 x 9 | - | 64 | - | 63,5 | - | 63 | 64 | 9 | 32 |
| 70 x 9 | - | - | - | - | - | - | 70 | 9 | 20 |
| 76 x 9 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 9 | 20 |
| 90 x 9 | - | - | - | - | - | - | 90 | 9 | 16 |
| 102 x 9 | - | - | - | 101,6 | 3 1/2 | - | 102 | 9 | 16 |
| 109 x 9 | - | - | - | - | - | - | 109 | 9 | 12 |
| 115 x 9 | - | - | - | - | - | - | 115 | 9 | 12 |
| 125 x 9 | - | - | - | 125 | - | - | 125 | 9 | 12 |
| 130 x 9 | - | - | - | - | - | - | 130 | 9 | 8 |
| 140 x 9 | - | - | 125 | 139,7 | 5 | - | 140 | 9 | 8 |
| 165 x 9 | - | - | - | - | - | - | 165 | 9 | 8 |
| 6 x 13 | 4 | 6 | - | - | - | - | 6 | 13 | 160 |
| 8 x 13 | - | 8 | - | - | - | - | 8 | 13 | 140 |
| 10 x 13 | 8 | 10 | 6 | 10,2 | 1/8 | - | 10 | 13 | 140 |

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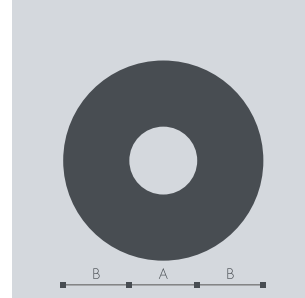
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| Type | Miedź CU | | Stal FE | | | Tworzywo szluczne | A mm | B mm | m/karton m |
|----------|----------|--------------------|----------|--------------------|-------|--------------------|---------|---------|---------------|
| | NW DN | Ø zewnętrzna mm | NW DN | Ø zewnętrzna mm | inch | Ø zewnętrzna mm | | | |
| 12 x 13 | 10 | 12 | - | - | - | - | 12 | 13 | 120 |
| 15 x 13 | 10 | 15 | 8 | 13,5 | 1/4 | - | 15 | 13 | 100 |
| 18 x 13 | 15 | 18 | 10 | 17,2 | 3/8 | 16 | 18 | 13 | 80 |
| 22 x 13 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 13 | 64 |
| 25 x 13 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 13 | 60 |
| 28 x 13 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 13 | 56 |
| 32 x 13 | - | - | - | - | 1 | 32 | 32 | 13 | 48 |
| 35 x 13 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 13 | 40 |
| 42 x 13 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 13 | 36 |
| 45 x 13 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 13 | 36 |
| 48 x 13 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 13 | 32 |
| 54 x 13 | 50 | 54 | - | 54 | - | 50 | 54 | 13 | 28 |
| 57 x 13 | - | - | - | - | - | - | 57 | 13 | 28 |
| 60 x 13 | - | - | 50 | 60,3 | 2 | - | 60 | 13 | 24 |
| 64 x 13 | - | 64 | - | 63,5 | - | 63 | 64 | 13 | 20 |
| 70 x 13 | - | - | - | - | - | - | 70 | 13 | 20 |
| 76 x 13 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 13 | 16 |
| 90 x 13 | - | - | - | - | - | - | 90 | 13 | 16 |
| 102 x 13 | - | - | - | 101,6 | 3 1/2 | - | 102 | 13 | 16 |
| 109 x 13 | - | - | - | - | - | - | 109 | 13 | 12 |
| 115 x 13 | - | - | - | - | - | - | 115 | 13 | 12 |
| 125 x 13 | - | - | - | 125 | - | - | 125 | 13 | 8 |
| 130 x 13 | - | - | - | - | - | - | 130 | 13 | 8 |
| 140 x 13 | - | - | 125 | 139,7 | 5 | - | 140 | 13 | 8 |
| 165 x 13 | - | - | - | - | - | - | 165 | 13 | 8 |
| 6 x 19 | 4 | 6 | - | - | - | - | 6 | 19 | 64 |
| 8 x 19 | - | 8 | - | - | - | - | 8 | 19 | 64 |
| 10 x 19 | 8 | 10 | 6 | 10,2 | 1/8 | - | 10 | 19 | 64 |
| 12 x 19 | 10 | 12 | - | - | - | - | 12 | 19 | 64 |
| 15 x 19 | 10 | 15 | 8 | 13,5 | 1/4 | - | 15 | 19 | 56 |
| 18 x 19 | 15 | 18 | 10 | 17,2 | 3/8 | 16 | 18 | 19 | 48 |

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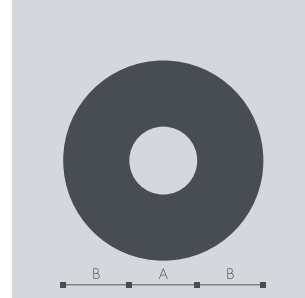
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| Type | Miedź CU | | Stal FE | | | Tworzywo szluczne | A mm | B mm | m/karton m |
|----------|----------|--------------------|----------|--------------------|-------|--------------------|---------|---------|---------------|
| | NW DN | Ø zewnętrzna mm | NW DN | Ø zewnętrzna mm | inch | Ø zewnętrzna mm | | | |
| 22 x 19 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 19 | 40 |
| 25 x 19 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 19 | 36 |
| 28 x 19 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 19 | 36 |
| 32 x 19 | - | - | - | - | 1 | 32 | 32 | 19 | 36 |
| 35 x 19 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 19 | 32 |
| 42 x 19 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 19 | 24 |
| 45 x 19 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 19 | 20 |
| 48 x 19 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 19 | 20 |
| 54 x 19 | 50 | 54 | - | 54 | - | 50 | 54 | 19 | 16 |
| 57 x 19 | - | - | - | - | - | - | 57 | 19 | 16 |
| 60 x 19 | - | - | 50 | 60,3 | 2 | - | 60 | 19 | 16 |
| 64 x 19 | - | 64 | - | 63,5 | - | 63 | 64 | 19 | 16 |
| 70 x 19 | - | - | - | - | - | - | 70 | 19 | 12 |
| 76 x 19 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 19 | 12 |
| 90 x 19 | - | - | - | - | - | - | 90 | 19 | 12 |
| 102 x 19 | - | - | - | 101,6 | 3 1/2 | - | 102 | 19 | 8 |
| 109 x 19 | - | - | - | - | - | - | 109 | 19 | 8 |
| 115 x 19 | - | - | - | - | - | - | 115 | 19 | 8 |
| 125 x 19 | - | - | - | 125 | - | - | 125 | 19 | 8 |
| 130 x 19 | - | - | - | - | - | - | 130 | 19 | 8 |
| 140 x 19 | - | - | 125 | 139,7 | 5 | - | 140 | 19 | 8 |
| 165 x 19 | - | - | - | - | - | - | 165 | 19 | 4 |
| 6 x 25 | 4 | 6 | - | - | - | - | 6 | 25 | 48 |
| 10 x 25 | 8 | 10 | 6 | 10,2 | 1/8 | - | 10 | 25 | 48 |
| 12 x 25 | 10 | 12 | - | - | - | - | 12 | 25 | 40 |
| 15 x 25 | 10 | 15 | 8 | 13,5 | 1/4 | - | 15 | 25 | 36 |
| 18 x 25 | 15 | 18 | 10 | 17,2 | 3/8 | 16 | 18 | 25 | 36 |
| 22 x 25 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 25 | 32 |
| 25 x 25 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 25 | 24 |
| 28 x 25 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 25 | 24 |
| 32 x 25 | - | - | - | - | 1 | 32 | 32 | 25 | 24 |

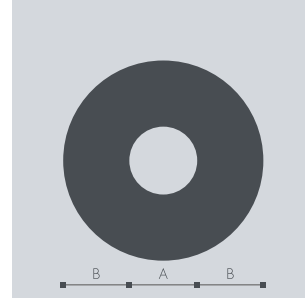
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| Type | Miedź CU | | Stal FE | | | Tworzywo szluczne | A mm | B mm | m/karton m |
|----------|----------|--------------------|----------|--------------------|-------|--------------------|---------|---------|---------------|
| | NW DN | Ø zewnętrzna mm | NW DN | Ø zewnętrzna mm | inch | Ø zewnętrzna mm | | | |
| 35 x 25 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 25 | 20 |
| 42 x 25 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 25 | 16 |
| 45 x 25 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 25 | 16 |
| 48 x 25 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 25 | 16 |
| 54 x 25 | 50 | 54 | - | 54 | - | 50 | 54 | 25 | 16 |
| 57 x 25 | - | - | - | - | - | - | 57 | 25 | 16 |
| 60 x 25 | - | - | 50 | 60,3 | 2 | - | 60 | 25 | 12 |
| 64 x 25 | - | 64 | - | 63,5 | - | 63 | 64 | 25 | 12 |
| 70 x 25 | - | - | - | - | - | - | 70 | 25 | 16 |
| 76 x 25 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 25 | 16 |
| 90 x 25 | - | - | - | - | - | - | 90 | 25 | 12 |
| 102 x 25 | - | - | - | 101,6 | 3 1/2 | - | 102 | 25 | 12 |
| 109 x 25 | - | - | - | - | - | - | 109 | 25 | 12 |
| 115 x 25 | - | - | - | - | - | - | 115 | 25 | 10 |
| 130 x 25 | - | - | - | - | - | - | 130 | 25 | 8 |
| 140 x 25 | - | - | 125 | 139,7 | 5 | - | 140 | 25 | 8 |
| 165 x 25 | - | - | - | - | - | - | 165 | 25 | 6 |
| 15 x 32 | 10 | 15 | 8 | 13,5 | 1/4 | - | 15 | 32 | 28 |
| 18 x 32 | 15 | 18 | 10 | 17,2 | 3/8 | 16 | 18 | 32 | 24 |
| 22 x 32 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 32 | 24 |
| 25 x 32 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 32 | 20 |
| 28 x 32 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 32 | 16 |
| 32 x 32 | - | - | - | - | 1 | 32 | 32 | 32 | 16 |
| 35 x 32 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 32 | 16 |
| 42 x 32 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 32 | 16 |
| 45 x 32 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 32 | 16 |
| 48 x 32 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 32 | 12 |
| 54 x 32 | 50 | 54 | - | 54 | - | 50 | 54 | 32 | 12 |
| 57 x 32 | - | - | - | - | - | - | 57 | 32 | 12 |
| 60 x 32 | - | - | 50 | 60,3 | 2 | - | 60 | 32 | 8 |
| 64 x 32 | - | 64 | - | 63,5 | - | 63 | 64 | 32 | 8 |

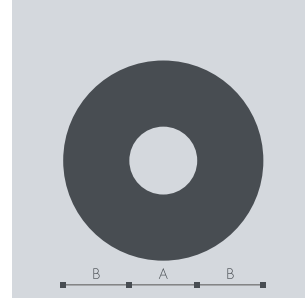
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| Type | Miedź CU | | Stal FE | | | Tworzywo szluczne | A mm | B mm | m/karton m |
|----------|----------|--------------------|----------|--------------------|-------|--------------------|---------|---------|---------------|
| | NW DN | Ø zewnętrzna mm | NW DN | Ø zewnętrzna mm | inch | Ø zewnętrzna mm | | | |
| 70 x 32 | - | - | - | - | - | - | 70 | 32 | 12 |
| 76 x 32 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 32 | 12 |
| 90 x 32 | - | - | - | - | - | - | 90 | 32 | 12 |
| 102 x 32 | - | - | - | 101,6 | 3 1/2 | - | 102 | 32 | 4 |
| 109 x 32 | - | - | - | - | - | - | 109 | 32 | 4 |
| 115 x 32 | - | - | - | - | - | - | 115 | 32 | 4 |
| 130 x 32 | - | - | - | - | - | - | 130 | 32 | 6 |
| 140 x 32 | - | - | 125 | 139,7 | 5 | - | 140 | 32 | 6 |
| 165 x 32 | - | - | - | - | - | - | 165 | 32 | 4 |
| 22 x 38 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 38 | 16 |
| 25 x 38 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 38 | 16 |
| 28 x 38 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 38 | 16 |
| 32 x 38 | - | - | - | - | 1 | 32 | 32 | 38 | 16 |
| 35 x 38 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 38 | 12 |
| 42 x 38 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 38 | 12 |
| 45 x 38 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 38 | 12 |
| 48 x 38 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 38 | 12 |
| 54 x 38 | 50 | 54 | - | 54 | - | 50 | 54 | 38 | 8 |
| 57 x 38 | - | - | - | - | - | - | 57 | 38 | 8 |
| 60 x 38 | - | - | 50 | 60,3 | 2 | - | 60 | 38 | 8 |
| 64 x 38 | - | 64 | - | 63,5 | - | 63 | 64 | 38 | 8 |
| 70 x 38 | - | - | - | - | - | - | 70 | 38 | 6 |
| 76 x 38 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 38 | 6 |
| 90 x 38 | - | - | - | - | - | - | 90 | 38 | 10 |
| 102 x 38 | - | - | - | 101,6 | 3 1/2 | - | 102 | 38 | 4 |
| 109 x 38 | - | - | - | - | - | - | 109 | 38 | 6 |
| 115 x 38 | - | - | - | - | - | - | 115 | 38 | 6 |
| 130 x 38 | - | - | - | - | - | - | 130 | 38 | 4 |
| 140 x 38 | - | - | 125 | 139,7 | 5 | - | 140 | 38 | 4 |
| 165 x 38 | - | - | - | - | - | - | 165 | 38 | 4 |

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| Type | Miedź CU | | Stal FE | | | Tworzywo szluczne | A mm | B mm | m/karton m |
|----------|----------|--------------------|----------|--------------------|-------|--------------------|---------|---------|---------------|
| | NW DN | Ø zewnętrzna mm | NW DN | Ø zewnętrzna mm | inch | Ø zewnętrzna mm | | | |
| 22 x 50 | 20 | 22 | 15 | 21,3 | 1/2 | 20 | 22 | 50 | 8 |
| 25 x 50 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 25 | 50 | 8 |
| 28 x 50 | 25 | 28 | 20 | 26,9 | 3/4 | 25 | 28 | 50 | 8 |
| 32 x 50 | - | - | - | - | 1 | 32 | 32 | 50 | 8 |
| 35 x 50 | 32 | 35 | 25 | 33,7 | 1 | 32 | 35 | 50 | 8 |
| 42 x 50 | 40 | 42 | 32 | 42,4 | 1 1/4 | 40 | 42 | 50 | 8 |
| 45 x 50 | - | - | 40 | 48,3 | 1 1/2 | - | 45 | 50 | 8 |
| 48 x 50 | - | - | 40 | 48,3 | 1 1/2 | 40,2 | 48 | 50 | 6 |
| 54 x 50 | 50 | 54 | - | 54 | - | 50 | 54 | 50 | 6 |
| 57 x 50 | - | - | - | - | - | - | 57 | 50 | 6 |
| 60 x 50 | - | - | 50 | 60,3 | 2 | - | 60 | 50 | 6 |
| 64 x 50 | - | 64 | - | 63,5 | - | 63 | 64 | 50 | 6 |
| 70 x 50 | - | - | - | - | - | - | 70 | 50 | 4 |
| 76 x 50 | 65 | 76,1 | 65 | 76,1 | 2 1/2 | - | 76 | 50 | 4 |
| 90 x 50 | - | - | - | - | - | - | 90 | 50 | 4 |
| 102 x 50 | - | - | - | 101,6 | 3 1/2 | - | 102 | 50 | 4 |
| 109 x 50 | - | - | - | - | - | - | 109 | 50 | 4 |
| 115 x 50 | - | - | - | - | - | - | 115 | 50 | 4 |
| 130 x 50 | - | - | - | - | - | - | 130 | 50 | 4 |
| 140 x 50 | - | - | 125 | 139,7 | 5 | - | 140 | 50 | 4 |
| 165 x 50 | - | - | - | - | - | - | 165 | 50 | 4 |