

# Data sheet alphamesh 7.0 x 0.7 stainless steel

Diameter: 7.00 mm
Wire gauge: 0.70 mm

Weight: c. 2.2 kg/m²

Rings per linear meter: 142.9

Open area: c. 60%

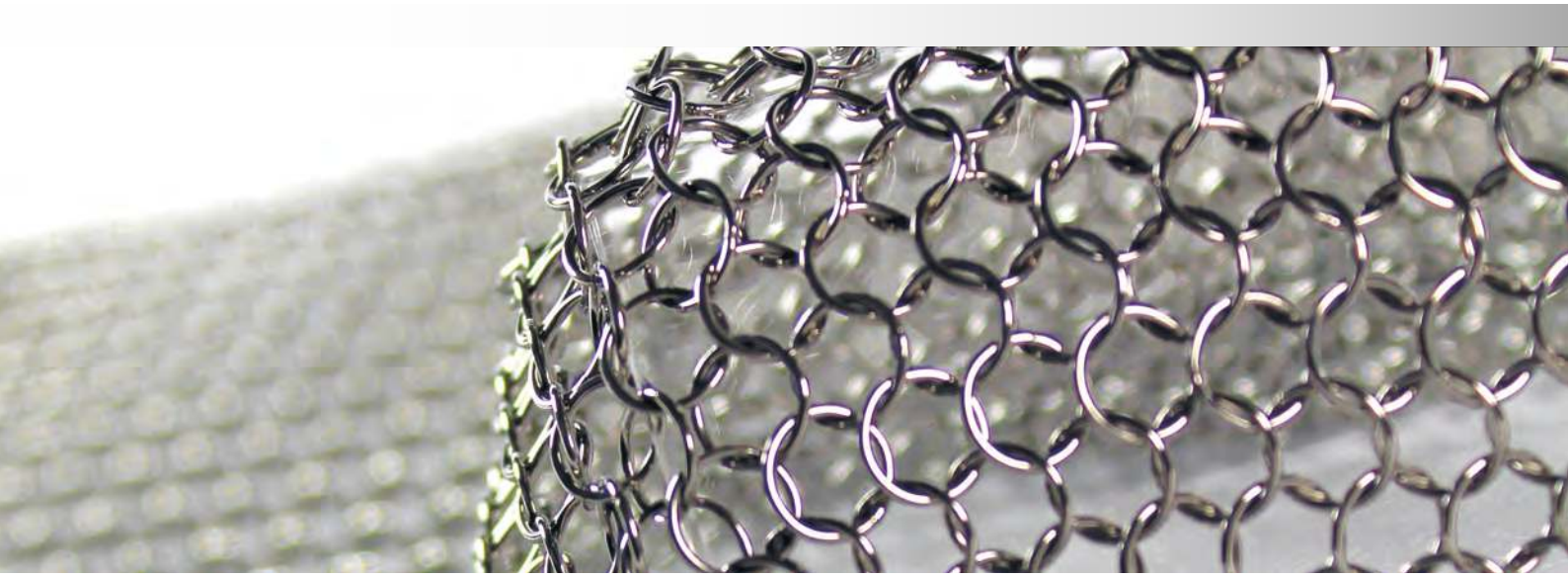
Max. standard dimensions
Width: up to 5.00 m
Height: max. 5.00 m
Further dimensions on request

Material: stainless steel 1.4404
Further materials on request

Rings per m²: c. 37000

Tensile strength [kN/m]: 23

Surface:
polished/ matt - waxed



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# Solar and photometric values alphamesh 7.0 x 0.7 according to EN 410


| | $\tau_{nh.solar}$ | $\tau_{nh.VIS}$ | $\tau_{nh.UV}$ |
|---|---|---|---|
| polished | 0.64 | 0.64 | 0.63 |
| matt | 0.60 | 0.59 | 0.59 |


| | $\rho_{nh.solar}$ | $\rho_{nh.VIS}$ | $\rho_{nh.UV}$ |
|---|---|---|---|
| polished | 0.15 | 0.14 | 0.10 |
| matt | 0.06 | 0.05 | 0.04 |


| | $\alpha_{solar}$ | $\alpha_{VIS}$ | $\alpha_{UV}$ |
|---|---|---|---|
| polished | 0.21 | 0.22 | 0.27 |
| matt | 0.35 | 0.36 | 0.37 |

## External solar protection - Reduction ratios according to EN 13363-1

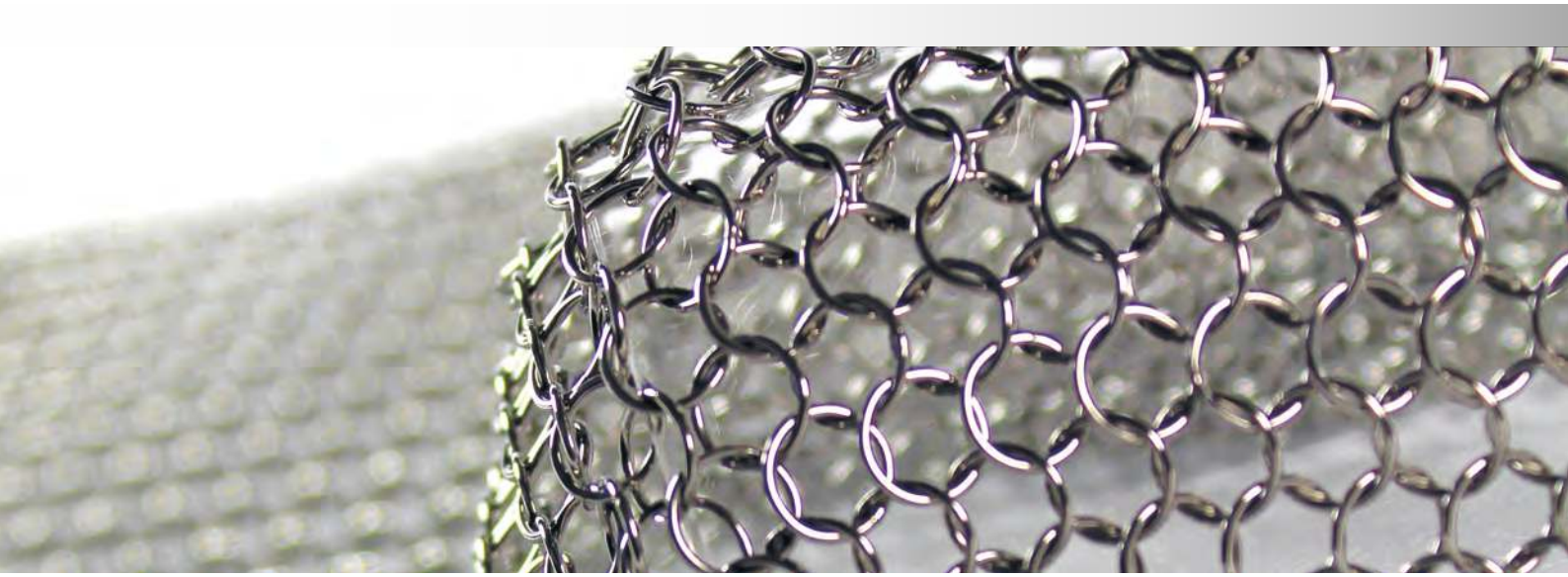

| | VG B | | VG C | | VG D | |
|---|---|---|---|---|---|---|
| | g | $F_C^3$ | g | $F_C^3$ | g | $F_C^3$ |
| polished | 0.55 | 0.73 | 0.48 | 0.74 | 0.51 | 0.71 |
| matt | 0.53 | 0.70 | 0.46 | 0.71 | 0.48 | 0.67 |

Glazing B (VG B) : double-glazed; $U_g$ = 3.0W/(m²K) and g = 0.75;
Glazing C (VG C) : triple-glazed ; $U_g$ = 2.0W/(m²K) and g = 0.65;
Glazing D (VG D): double-glazed with heat insulation coating $U_g$=1.6W/(m²K) and g = 0.72
g = Energy transmission / $F_C^3$ = Reduction ratio

## Internal solar protection - Reduction ratios according to EN 13363-1


| | VG B | | VG C | | VG D | |
|---|---|---|---|---|---|---|
| | g | $F_C^3$ | g | $F_C^3$ | g | $F_C^3$ |
| polished | 0.64 | 0.86 | 0.57 | 0.88 | 0.63 | 0.87 |
| matt | 0.68 | 0.91 | 0.60 | 0.93 | 0.67 | 0.93 |

Glazing B (VG B) : double-glazed; $U_g$ = 3.0W/(m²K) and g = 0.75;
Glazing C (VG C) : triple-glazed ; $U_g$ = 2.0W/(m²K) and g = 0.65;
Glazing D (VG D): double-glazed with heat insulation coating $U_g$=1.6W/(m²K) and g = 0.72
g = Energy transmission / $F_C^3$ = Reduction ratio



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