

High+low frequency



- for large-scale shielding of high-frequency electromagnetic waves, low-frequency alternating electric fields and dissipation of static charges
- finely woven, corrosion-proof wire mesh made of special steel
- breathable, tear-resistant, and flexible
- fabric for use in dry construction
- Adamantan 003 is a very finely woven, corrosion-proof special steel mesh for shielding from high-frequency electromagnetic waves and low-frequency electric alternating fields.

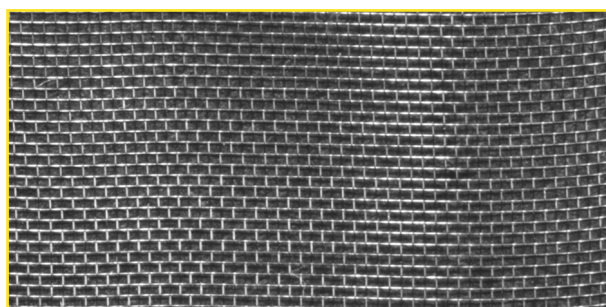
Adamantan 003 is used for roofs, walls, and ceilings, primarily in dry construction. Special uses, e. g. as a fly screen or possible partitions. Due to the high shielding attenuation (~50 dB), the fabric also meets the highest demands.

Through the fine and flexible structure of the fabric, even complicated wall areas such as wall penetrations, corners, window reveals, and similar areas can be effectively covered and perfectly integrated into the shielding area.

Through the very fine, nearly textile feel and the possibility of sewing the material, it is also conceivable to create a bed canopy from Adamantan 003.

Order-No.: 200249

Short-Desc.: Adamantan 003 - 105 cm



Construction fabric (HF+LF)

Adamantan 003

Type	MHz	dB	in %
DVB-T2	470 - 690	52	> 99,999
LTE / 5G wide	700 - 750	52	> 99,999
GSM, LTE	920 - 960	51	> 99,999
GSM, LTE	1800 - 1880	47	> 99,99
DECT	1880 - 1900	47	> 99,99
LTE, 5G wide	2110 - 2170	46	> 99,99
W-LAN 2400	2400 - 2500	45	> 99,99
5G fast	3400 - 3700	42	> 99,99
W-LAN 5200	5150 - 5350	38	> 99,9

Technical data

length:	by the meter (roll = 100 m / 105 m ²)
width:	105 cm
thickness:	about 0.05 mm
colour:	silver
grammage:	90 g/m ²
mesh gauge:	about 0.22mm x 0.22mm
electrical conductivity:	< 0.5 Ω/□
composition:	special stainless steel, V2A, surface clean, without oil or grease
features:	vapour diffusive, corrosion-resistant
fire protection classification:	A1 non-flammable building material DIN 4102:1994
basis for inspection:	IEEE Standard 299™-2006
shield attenuation:	max. 52 dB (> 99.999 %)

Required accessories



ground strap AEB 3.0
(for the electrically conductive connection of several sheets)



grounding plate EGP
(for extensive installation in ceiling and wall areas)

Scope of application

roof area inside
wall and roof area inside (behind casings)
floor area (beneath floating floors, parquet, and wooden floorboards)

Type	MHz	Description
DVB-T2	470 - 690	digital video broadcasting – terrestrial, 2nd generation, TV via antenna
LTE / 5G wide	700 - 750	from 4G, now 5G NR without beamforming / MIMO
GSM, LTE	920 - 960	from 2G - D1, now 5G NR without beamforming / MIMO
GSM, LTE	1800 - 1880	from 2G - D2, E network, now 5G NR without beamforming / MIMO
DECT	1880 - 1900	wireless phone
LTE, 5G wide	2110 - 2170	from 3G, formerly UTMS, now 5G NR without beamforming / MIMO
W-LAN / WiFi 2400	2400 - 2500	wireless LAN
5G fast	3400 - 3700	5G NR - new frequency band with beamforming / MIMO
W-LAN / WiFi 5200	5150 - 5350	wireless LAN

Shielding values according to test report: EMF Test Lab Bavaria

Shielding effectiveness -Adamantan 003 - 470 MHz to 40.000 MHz (40 GHz)

