Thermal conductive foil made of aluminium

– double-sided coated aluminium foil
– good replacement for thermal pastes
– electroconductive with wide temperature range
– low heat-transmission resistance between device and heatsink
– cuts and contours according to customer specific drawing specifications

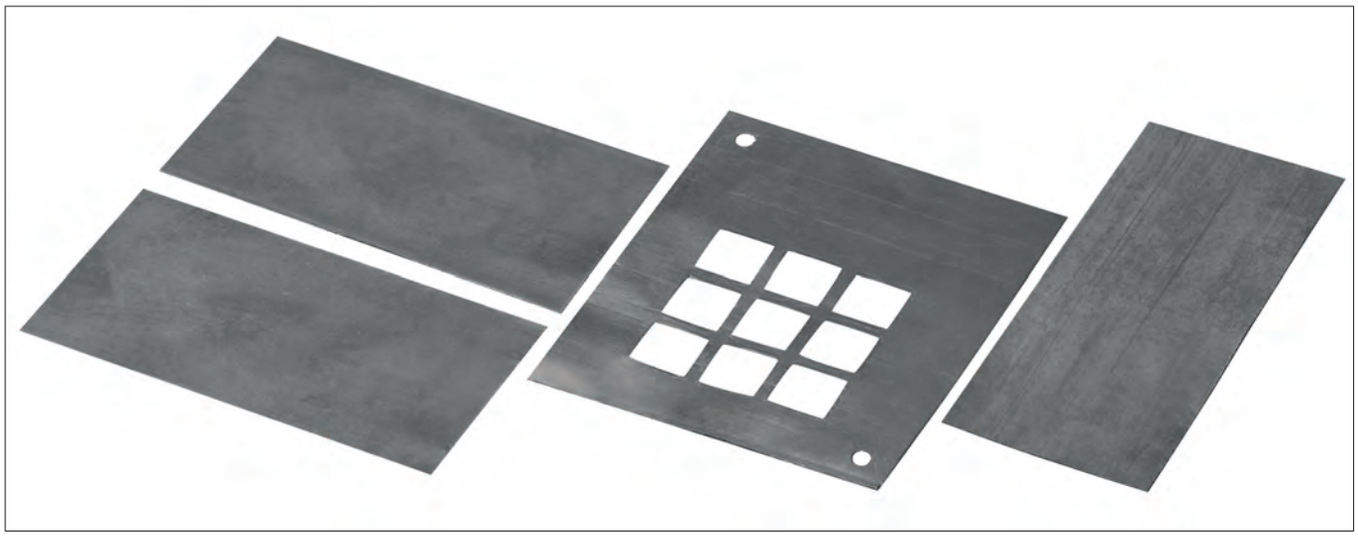
art. no.	material thickness [mm]
WFQ 25	0.152

	WFQ 25
version	aluminium foil with double-sided coating
colour	black
hardness	93 Shore A
thermal conductivity	2.5 W/m·K
temperature range	-60°C... +180°C
volume resistance	10^2 Ω·m
dielectric strength	electrically conductive
class of inflammability	UL 94 V-0
type of delivery	rolled goods, roll width 300mm/ cuttings on customer's requirement

Thermal resistances vs. contact pressure / surface TO 220					
pressure [psi]	**10**	**25**	**50**	**100**	**200**
thermal resistance WFQ 25 [K/W]	2.44	1.73	1.23	1.05	0.92
thermal impedance WFQ 25 [K-cm²/W]	3.25	1.88	1.38	0.94	0.75

fischer elektronik

High thermoconducting graphite foils

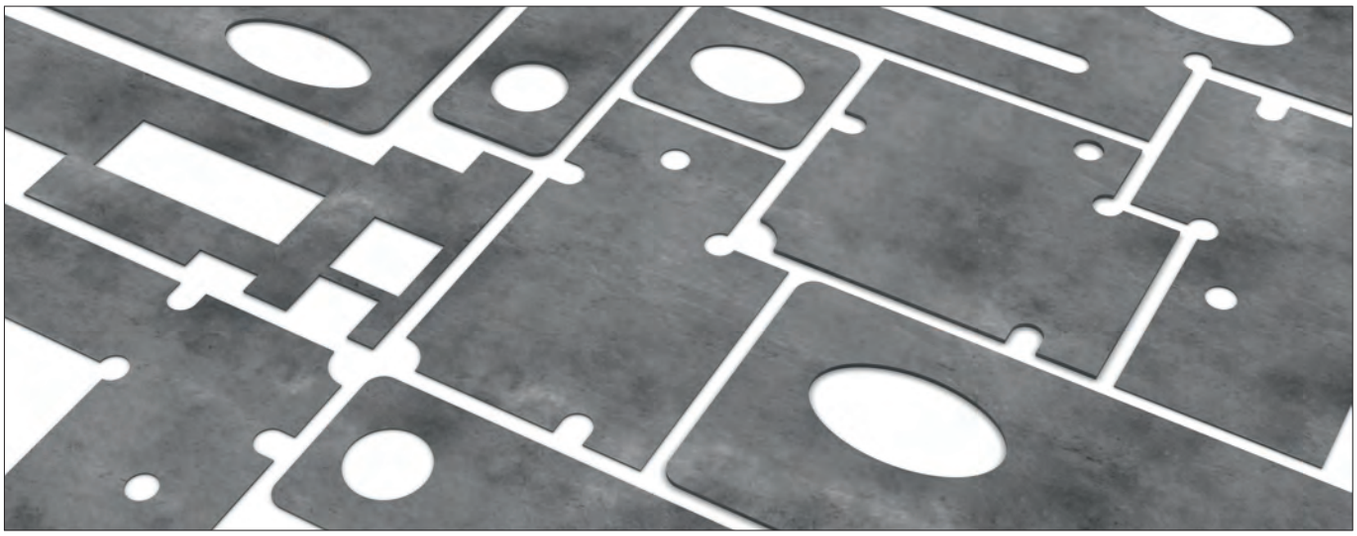


– high-compressed anisotropic natural graphite
– very good thermal characteristics
– optimal for heat spreading
– high operating temperature range
– tape width (B) available in different dimensions and lengths
– different material thicknesses and coatings upon request
– customer specified cuttings and stampings acc. to drawing

art. no.	B [mm]
WLFG S 900 R 25	25
WLFG S 900 R 50	50
WLFG S 900 R 100	100

	WLFG S 900
version	graphite foil, electrically conductive
material thickness	0.15 mm
version	without adhesive coating
colour	dark gray
density	>1.6 g/cm^3
hardness	30 Shore D
thermal conductivity z (x/y)	7.5 (>450) W/m·K
thermal resistance	0,08 K/W
specific thermal resistance	34°C mm^2/W
temperature range	-40°C... +500°C
tear strength	10 N/mm^2
elongation at break	5 %
class of inflammability	UL 94 V-0
type of delivery	sold by the meter

High thermoconducting graphite foils



– highly thermally conductive graphite foil
– with and without adhesive coating
– very good temperature resistance
– ideally suited as a heat spreader
– customer-specific cuts and molded parts

art. no.	material thickness [mm]	art. no.	material thickness [mm]
WLFG 9813 R310	0.13	**WLFG 9813 K R310**	0.13
WLFG 9825 R310	0.25	**WLFG 9825 K R310**	0.25
WLFG 9850 R310	0.50	**WLFG 9850 K R310**	0.50

	WLFG 98 ...	**WLFG 98 ... K**
version	graphite foil, electrically conductive	
version	without adhesive coating	adherent layer on one side
colour	grey	
hardness	85 Shore A	
thermal conductivity z (x/y)	8 (140) W/m·K	
temperature range	-240°C ... +350°C	
volume resistance	$11 \cdot 10^{-4}$ Ω·cm	
dielectric constant	<0,001 [1 MHz]	
class of inflammability	UL 94 V-0	
type of delivery	rolled goods, roll width 310mm/ other dimensions upon request/ sheet material auf Anfrage	

Thermal resistances vs. contact pressure / surface TO 220			
pressure [psi]	**10**	**29**	**145**
thermal impedance WLFG 9813 (K) R310 [K-cm²/W]	0.77	0.58	0.39
thermal impedance WLFG 9825 (K) R310 [K-cm²/W]	1.55	1.00	0.64
thermal impedance WLFG 9850 (K) R310 [K-cm²/W]	2.60	1.48	1.00