

Characteristics:

Colour	white	Crystal structure	α - Al ₂ O ₃ ; trigonal
Melting point	2050°C	Absolute density	3,96 g/cm ³
Hardness	21 kN/mm ²	Compact fracture force	58 N

	SWSK	WSK	ZWSK
Grain shape	very pointed, angular	angular	blocky
Toughness	very low	low	medium

TREIBACHER ALODUR® SWSK, WSK and ZWSK represent White Fused Aluminium Oxide which is obtained by melting high grade alumina in electric arc furnaces at 2050°C. The material is characterised by excellent fracturing properties providing a cool and sharp grinding behaviour.

Typical chemical analysis in wt. %:

	Al ₂ O ₃	Total iron as Fe ₂ O ₃	Na ₂ O
WSK, ZWSK 24	99,78	0,04	0,18
WSK F400	99,65	0,02	0,29
ZWSK F400	99,77	0,02	0,18

Applications:

Due to its purity and excellent cool grinding properties, **TREIBACHER ALODUR® SWSK, WSK and ZWSK** are especially recommended for vitrified bonded precision grinding wheels.

Typical applications are:

- surface grinding of alloyed and unalloyed steel types
- internal cylindrical grinding
- CD creepfeed grinding of alloyed steel and Ni alloys
- gear wheel grinding
- thread grinding

Grits available:

TREIBACHER ALODUR® SWSK, WSK and ZWSK are available in grits 12 to 240*, sized in accordance with the current FEPA / ISO and ANSI sieve standards. **TREIBACHER ALODUR® WSK and ZWSK** are also available in microgrits - sizes F 230 to F 1200 (WSK) and F 230 to F 2000 (ZWSK).

Bulk density (g/cm³):

Grit	SWSK	WSK	ZWSK	Grit	SWSK	WSK	ZWSK
12	1,54-1,64	1,65-1,72	1,70-1,80	60	1,57-1,67	1,67-1,77	1,77-1,87
14	1,56-1,66	1,66-1,72	1,72-1,82	70	1,55-1,65	1,65-1,75	1,75-1,85
16	1,58-1,68	1,68-1,74	1,74-1,84	80	1,53-1,63	1,63-1,73	1,73-1,83
20	1,64-1,74	1,73-1,79	1,79-1,89	90	1,50-1,60	1,60-1,70	1,70-1,80
22	1,64-1,74	1,73-1,79	1,79-1,89	100	1,48-1,58	1,58-1,68	1,68-1,78
24	1,65-1,75	1,73-1,79	1,79-1,89	120	1,45-1,55	1,55-1,65	1,65-1,75
30	1,66-1,76	1,74-1,80	1,80-1,90	150	1,42-1,52	1,52-1,62	1,62-1,72
36	1,65-1,75	1,74-1,80	1,80-1,90	180	1,40-1,50	1,50-1,59	1,59-1,69
40	1,63-1,73	1,73-1,79	1,79-1,89	220	1,37-1,47	1,47-1,57	1,57-1,67
46	1,61-1,71	1,71-1,77	1,77-1,87	240	1,37-1,45	1,45-1,54	1,54-1,64
54	1,59-1,69	1,69-1,75	1,75-1,85				

Determined using the current FEPA test method.

* Grit 240 is available in ANSI standard only