

# List of Quality Monitored Components

## GGF Gütegemeinschaft Flachglas e. V. (Flat Glass Quality Association)



This list specifies the components of insulating glass units which are subject to a quality assurance according to RAL-GZ 520/2 „General and Specific Quality and Inspection Regulations for Components of Insulating Glass Units" and thus may be used for the production of quality-marked insulating glass units according to RAL-GZ 520. The inclusion in this list says nothing about other properties of the components which are not subject of quality the assurance according to RAL-GZ 520/2. For information about further properties, other documents such as material safety data sheets etc are to be consulted.

### Spacers

Manufacturer	Gr. <sup>1)</sup>	Product	Cat. <sup>2)</sup>	Rem. <sup>3)</sup>
Edgetech Europe GmbH	Group	Super Spacer® T-Spacer™ Premium	E	
		Super Spacer® T-Spacer™ Premium Plus	E	
		Super Spacer® T-Spacer™ SG	E	
		Super Spacer® TriSeal™ Premium Plus	E	
Fenzi Group		Butylver TPS	D	
HELIMA GmbH		ALUTEC	A	
		NIROTEC	A	
Kömmerling Chemische Fabrik GmbH		Ködispace	D	
		Ködispace 4SG	D	
Profilglass S.P.A.		Alu-Abstandhalter biegsam Serie 3000, H6,5mm PGE, 6,5mm PGS	A	
ROLLTECH A/S (Alupro)		Multitech G	C	
	Group	Chromatech	A	
		Chromatech plus	A	
		CHROMATECH ultra F / F1	B	
		CHROMATECH ultra S	B	
	Group	Aluminium Profil H65 (Alupro)	A	
Ferrotech (2WS)		A		
		Thermix TX Pro	B	
Technoform Glass Insulation GmbH	Group	Technoform-Spacer SP12 (TGI Spacer M 8 mm)	B	
		Technoform-Spacer SP13 (TGI Sp.M w/o wire)	B	
		Technoform-Spacer SP14 (TGI Sp.M with wire)	B	
		Technoform-Spacer SP18	B	
		Technoform-Spacer SP16 (TGI Sp. Precision)	C	
Vetrotech Saint-Gobain (Int.) AG	Group	Swisspacer Advance	C	
		Swisspacer Ultimate	C	
		Swisspacer Ultimate Pro	C	b)

### Desiccants

Manufacturer	Gr. <sup>1)</sup>	Product	T <sub>c,min</sub> <sup>5)</sup> [%]	Rem. <sup>3)</sup>
Arkema France	Gruppe	Siliporite NK30 B0.7	16,5	
		Siliporite NK30 B1.3	16,5	
eco in sp. z o.o.		eco mol	16,5	
Fenzi Group		Molver MGM 01	16,3	
Grace GmbH	Gruppe	Phonosorb 551®	16,5	
		Phonosorb 555®	16,5	
		Phonosorb 558®	16,5	
Nedex Chemie Deutschland GmbH		Zeolan K	16,5	
		Nanomol-C	17,2	b)
Rottler und Rüdiger und Partner GmbH		RR sorb	16,5	
Schollglas		GEWESorb	16,5	

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### Primary sealants

Manufacturer	Product	Rem. <sup>3)</sup>
ECI European Chemical Industries LTD	Emcepren 80 IG Emcepren 80 IGS	
eco in sp. z o.o.	eco butyl	
FENZI Group	Butylver Butylver GB Butylver SS Butylver XL	
IGK Isolierglasklebstoffe GmbH	IGK 511	
Kömmerling Chemische Fabrik GmbH	GD 115 GD 115 S GD 115 S-LV Naftotherm BU-S	b)
Tenachem SIA	TENAGLASS 3 TENAGLASS-PIB	a)
Tremco CPG Germany GmbH	Tremco JS680 Tremco JS780 S	

### Secondary Sealants

Manufacturer	Product	Cat. <sup>4)</sup>	Rem. <sup>3)</sup>
Dow Silicones Deutschland GmbH	DOWSIL 3362 DOWSIL 3363 DOWSIL 993	SI SI SI	
ECI European Chemical Industries LTD	Emcepren 200 Emcepren 200 neo Emcepren 200 classic	PU PU PU	
eco in sp. z o.o.	Eco pur CBD Eco pur C	PU PU	
FENZI Group	Poliver GP-AC Poliver AC Thiover Thiover F	PU PU PS PS	
IGK Isolierglasklebstoffe GmbH	IGK 130 IGK 330	PU PS	
Kömmerling Chemische Fabrik GmbH	GD 116 GD 116 LV GD 116 NA Naftotherm M 82-935 GD 677 NA GD 677 NA plus GD 920	PS PS PS PS PU PU SI	
Sika Engineering Silicones srl	Sikasil IG-25 HM Plus (2K Si) Sikasil SG-500 (2K Si)	SI SI	
Tenachem SIA	TENAGLASS PU BE TENAGLASS PU FR S TENAGLASS PS EN	PU PU PS	
Tremco CPG Germany GmbH	Tremco JS440 Tremco JS442 MF	PU PU	

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### **1) Explanation "Group"**

Under certain conditions, the components 'Spacers' and 'Desiccants' can be combined to groups. From one product group, at least one representative product per manufacturer must be sampled half-yearly and forwarded for inspection. (For more information about grouping please see Quality and Inspection Regulations for Components, section 2.1 resp. 3.1).

### **2) Spacer categories acc. to Specific Quality and Inspection Regulations for Spacers, Section 2.1**

- A = Hollow spacers in aluminium, galvanized steel or stainless steel
- B = Hollow spacers made of composite materials with metallic adhesion surface to the sealants
- C = Hollow spacers made of composite materials with non-metallic adhesion surface to the sealants
- D = On site, hot applied flexible spacer (Thermoplastic material)
- E = Prefabricated foamed spacer profiles from the roll

### **3) Remarks**

- a) An inspection contract has been concluded with a testing and inspection body, the Technical Documentation has been submitted in full, and the initial visit for sampling has already taken place. The test report is not yet available.
- b) The test report of the initial visit has been submitted. Continuous monitoring reports are not yet available.

### **4) Secondary sealants**

- PU = Secondary sealant on the basis of Polyurethane
- PS = Secondary sealant on the basis of Polysulfide
- SI = Secondary sealant on the basis of Silikone

### **5) T<sub>c,min</sub> (Minimum value of Standard moisture adsorption capacity)**

The T<sub>c,min</sub>-value was introduced in accordance with the decision of the Quality Committee for insulating glass units on November 8th, 2022. Unless a desiccant manufacturer declares a different value for his product, the T<sub>c,min</sub>-value is set at 16.5 %. Since January 2023, the T<sub>c,min</sub>-value is used by the testing and inspection bodies to calculate the I-index in short climate tests as part of the quality monitoring of insulating glass units. As part of the quality monitoring of components of insulating glass units, the T<sub>c,min</sub>-value is monitored in addition to the existing specifications of the Quality and Inspection Regulations for desiccants. If the T<sub>c,min</sub>-value declared on this list is not reached, the periodic test/inspection is failed.