



Desmodur® AGA 2025

General properties and applications

Desmodur® AGA 2025 is a TDI-based prepolymer containing free isocyanate - groups, used for the binding of cork granulate.

Specification

Property	Value	Unit
NCO Content	4,25 ± 0.25	weight %
Viscosity (23°C)	5100 ± 400	mPa·s

Packaging

Drums

Shelf life

6 months if stored in closed drums protected from humidity. Desmodur® AGA 2025 is sensitive to humidity. Once opened vessels should be closed tightly for further storage. The incoming air should be dried with an appropriate filter (silicagel, calcium chloride or similar). The product should not be warmed up permanently at temperatures higher than 40 °C.

Recommended storage temperature

20°C

Processing

Desmodur® AGA 2025: 6-10% depending on the granulate and mould technique.

Usual cork humidity: 6-9%

Mixing time (depends on mixer): 5 - 15 minutes

Pot life of the mixture: approx. 2 hours, depends on temperature and air humidity

The addition of paraffin as lubricant is necessary in an extrusion process

Working temperature: 110 -140°C



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Handling Precautions

Desmodur® AGA 2025 contains free TDI. The MAK value (Maximum concentration at working place) for TDI has been fixed at 0,01 ppm.

While working with Desmodur® AGA 2025 special attention should be paid. It should be worked only in well ventilated places and with enough air aspiration. Without sufficient ventilation, already at room temperature the MAK may be exceeded. All the security measurements should be enhanced if the product is used at higher working temperatures.

Vapours and aerosols of Desmodur® AGA 2025 (latter are formed specially while cleaning) are irritant to eyes, nose and lungs. Thus their inspiration should be avoided by all means.

Avoid contact with eyes and skin.

During all works with Desmodur® AGA 2025 safety glasses and impermeable protective gloves should always be worn.

Splashes in the eyes should be removed immediately by careful flushing with copious amounts of water. Medical attention should then be obtained.

Splashes on the skin should be wiped off immediately, after which the contaminated areas should be thoroughly washed with soap and water. Desmodur® AGA 2025 should be stored separately from food.

Further security information can be obtained from the Data Safety Sheet.

Food Legislation

The raw materials used for the production of Desmodur® AGA 2025 are described in the FDA list and/or the regulation 90/128/CEE (with its modifications) of materials that can be used in contact with food (1).

Please note that different legislations limitate the maximum levels of different compounds in a finished article. These levels should be checked by the producer of the finished article that is expected to contact with food.

Further, the total migration, the specific migration of TDI in form of TDA and the organoleptic properties of cork binded with Desmodur® AGA 2025 have been studied (2). These studies have demonstrated the suitability of this product for the production of bottle corks.

According to the resolution 212/79 of the Instituto Nacional de Toxicología de Barcelona, Desmodur® AGA 2025 is expected to be transformed into a polymer which is completely free of isocyanate groups and, thus, is free of any toxicity, being suitable to be used for the production of bottle corks.

- (1) Expediente número 98009397 of the Laboratori General d'Assaigs i Investigacions (LGAi), dated 08.06.1998
- (2) Expediente número 96001278 of the Laboratori General d'Assaigs i Investigacions (LGAi), dated 22.01.1996.

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c. Vila Seca – La Pineda s/n

E – 43006 Tarragona