

DARACLAR[®] 920

Beer Stabilizer

DARACLAR is a registered trademark of W.R. Grace & Co.

1) PRODUCT DESCRIPTION

DARACLAR[®] 920 is a synthetically produced, amorphous silica which appears as a white free flowing powder.

2) PRODUCT SPECIFICATION

<i>Property</i>	<i>Unit</i>	<i>Specification</i>	<i>Test Method</i>
Loss on drying (160°C)	%	59.0 - 65.0	GRACE Q 09
SiO ₂ Content (dry basis)	%	99.0 min.	GRACE Q 21
pH (5% aq. slurry)	-	3.5 - 5.5	GRACE Q 14 (DIN EN ISO 787-9)
Wet Screen Residue (>150 µm)	%	0.2 max.	GRACE Q 04 (DIN EN ISO 787-18)

3) TYPICAL PROPERTIES

The following data are given for information purposes only:

<i>Property</i>	<i>Unit</i>	<i>Typical Value</i>	<i>Test Method</i>
Average Particle Size (Malvern Mastersizer 2000)	µm	19.0	GRACE Q 13
Fe (Beer soluble)	mg/100 g	< 2.0	MEBAK
Ca (Beer soluble)	mg/100 g	< 5.0	MEBAK

4) RECOMMENDED APPLICATIONS

DARACLAR[®] 920 is used for the selective adsorption of haze-forming proteins from beer. DARACLAR[®] 920 is added either together with the filter aid or by a separate dosing system to the beer during the filtration stage. The dosage used depends on the desired stability of the beer but lies, in general, from 40-120 g/hl. DARACLAR[®] 920 is recommended if fast filtration speed is required. DARACLAR[®] 920 complies completely with the German Beer Purity Law (Certificate of Compliance issued by Prof. L. Narziß of Weihenstephan). DARACLAR[®] 920 is free from beer damaging organisms.

5) PACKAGING INFORMATION

DARACLAR® 920 is supplied in bags on pallets.

25 kg/bag	18 bags/pallet	450 kg/pallet	pallet: 800 x 1200 mm
20 kg/bag	18 bags/pallet	360 kg/pallet	pallet: 800 x 1200 mm
670 kg/big bag	1 big bag/pallet		pallet: 1000 x 1000 mm

Details of silotruck delivery (pneumatic loading) on request.

6) HANDLING AND STORAGE RECOMMENDATIONS

Like all other finely powdered products DARACLAR® 920 has a tendency to develop dust. During handling, precautions should be taken against electrostatic discharges. Additional information can be found in our Safety Data Sheet. Storage in a dry warehouse is recommended. Care should be taken to store and transport DARACLAR® 920 in conditions where the temperature is above freezing. Open packages should be resealed to prevent contamination of the product. The material should be used within 6 months from the date of production.

7) HEALTH AND SAFETY INFORMATION

DARACLAR® 920 is a synthetic, amorphous silica. Information to date indicates that the dust from the product is not toxic and does not cause fibrosis. The Occupational Exposure Limit in Germany is 4 mg/m³ for total dust (MAK). Additional information can be found in our Safety Data Sheet. Please refer also to national laws and regulations. The World Health Organization has placed amorphous silica on the list of food additives which have been cleared toxicologically for use in food with the notation: "Acceptable Daily Intake: Not limited". Amorphous silica has been approved for use in food and food-like items in many countries.

8) OTHER INFORMATION

We hope the information given here will be helpful. It is based on data and knowledge which we believe to be true and accurate and is offered for the user's consideration, investigation and verification. Accordingly, save in the event of gross negligence or willful misconduct of ourselves and our agents, we will not be liable for any damages resulting from errors, omissions or non-compliance of the information set forth herein. Further, please read all statements, recommendations or suggestions in conjunction with our General Conditions of Delivery, Performance and Payment which limit our liability with respect to all goods supplied by us. Test methods are available on request.

9) PRINCIPAL SALES OFFICES

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