

Technical Data Sheet BEROLAMINE-20 (BA-20)

General

Chemical Composition

Higher polyethylene polyamines approx. 55%
(isomers of TETA, TEPA, PEHA, and higher)
Alkanolamines approx. 45%
(AEEA, DEA, Hydroxyethyl DETA, and higher)
CAS No.: 84238-53-9/68910-05-4
EINECS No.: 282-508-4/272-729-4

Berolamine-20 (BA-20; CAS 68910-05-4) is a blend of higher polyethylene polyamines and alkanolamines. BA-20 is used as an intermediate in the manufacture of asphalt additives, in polyamide resins and corrosion inhibitors. It is also used as a cement grinding agent and flotation agent.

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Dark brown liquid	200
Amine number	mgKOH/g	min 1100	234
Water	w%	max 1.0	305
Viscosity	mPa.s at 50°C	max 100	589

Methods of Analysis are available upon request.

In case of dispute, the listed Method of Analysis will be used as reference methods.

Physical and Chemical Properties

Property	Value	Property	Value
Form	viscous liquid	pH	12 at 25 % solution
Colour	brown	Melting point/freezing point	< -30 °C at 1 013 hPa
Odour	ammoniacal	Boiling point/boiling range	254 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	176 °C at 1 013 hPa Method: Pensky-Martens ISO 2719
Explosive properties	Not explosive	Auto-Ignition temperature	355 °C at 1,013 hPa
Oxidizing properties	The substance or mixture is not classified as oxidizing	Vapour pressure	0,00009 hPa at 20 °C
Water solubility	Soluble at 20 °C	Relative density	1,024 at 20 °C
Solubility in other solvents	Soluble in ethanol and acetone	Partition coefficient: n-octanol/water	log Pow: -2,6 at 25 °C
		Viscosity, dynamic	40 mPa.s at 50 °C

This information is issued by AkzoNobel to Customer. The information is, to AkzoNobel's actual knowledge and understanding of the subject matter in this document, considered accurate and reliable as of the date appearing above and is presented in good faith. Because production process as well as use conditions and applicable laws may differ from one location to another and may change over time, Customer is responsible for determining whether the information in this document is appropriate for Customer use and at the time in question. Since AkzoNobel has no control over how this information may be ultimately used and for other reasons stated above, all liability is expressly disclaimed and AkzoNobel assumes no obligation or liability therefore. No warranty, express or implied, is given, including without limitation warranties of fitness for particular purpose or non-infringement, each of which is specifically disclaimed.