TECHNICAL DATA SHEET

NATURAL RUBBER LATEX CONCENTRATE

PVULTEX PVML
Low Ammonia Prevulcanised NR Latex concentrate

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Natural Rubber Latex is a natural polymer produced by biosynthesis within the tree species *Hevea Brasiliensis.* As such it is a renewable source of rubber which, unlike its synthetic alternatives, sequestrates atmospheric CO_2 as it grows and is usually net carbon-positive at the place of delivery (depending on the particular supply chain).

Like all natural products, raw NR latex contains proteins which mediate the biosynthesis and also act as natural colloidal stabilisers. It has been demonstrated over the past 30 years that some of these proteins can in certain latex articles cause sensitization and possible type I allergic reactions in pre-sensitized individuals.

PVULTEX PVML is a Low Ammonia prevulcanised NR Latex having a medium modulus with high purity / low toxicity rating making it an ideal latex for the production of medical goods.

PVultex PVML is used in a variety of dipping processes whereby medium modulus is required. It is an "easy-to-use" latex for heat sensitize dipping and also suitable for making medical products, especially for gloves, tubing and catheters.

Other important usage of PVML includes can sealing compounds, toy balloons, cotton supported gloves and also other surface coating applications.

Specifications given below are for the standard PVultex PVML.

Colloidal Properties	Unit	Specification	Method
pH	Number	10.6	ISO 976
Mechanical stability (MST)	Seconds	>800	ISO 35
Ammonia Content	%	0.38	ISO 125
Ford Cup 3 Viscosity (cps)	(25°C)	30.5	
Total Solids Content (TSC)	%	60.3	ISO 124

Physical Properties	Unit	Specification	
Modulus at 700% elongation	MPa	11.8	Unaged
Tensile Strength	MPa	25.0	Unaged
Modulus at 700% elongation	% Retention	50 min	Aged (22hrs at 100° C)
Tensile Strength	% Retention	75	Aged (22hrs at 100° C)

Corrie MacColl Europe B.V.
Chamber of Commerce No. 70249539
Ankersmidplein 2, 1506 CK Zaandam | The Netherlands
T: +31 (0) 75 6810 810 | www.corrie-maccoll.com

Additional Product Information

Packaging Flexitanks of 21.5 mt; tanktruck 10-25 mt; IBC 1000 litre; drums 200 litre

Storage

Protect from freezing, temperature 10 - 38°C. Store in a dry place, protect from UV light and oxygen in a well-sealed container. Intermittent, slow stirring recommended to prevent gravitational creaming. IBCs should be homogenized with an IBC stirrer before use. Drums should be rolled or inverted occasionally if stored for long periods.

Handling

Handle with good industrial hygiene and safety practice. Wear protection gloves and avoid contact with skin. Use in well-ventilated area only. Be prepared for the strong Ammonia odor. Avoid release to the environment. For further information on safe handling please review our corresponding SDS.

Usage

During storage rubber particles cream at the surface. Before usage and minimum every 3 weeks during storage, the latex should be re-dispersed by slow agitation. Drums can be rolled in sealed conditions, while IBC should be stirred. Close containers immediately after stirring. Ammonia is used to suppress bacterial action, evaporation should be avoided at any time. Do not expose airborne bacteria or contaminated surfaces to the latex.

We recommend to filter the material through a 2000 micron sieve before usage.

Origin

Thailand

Shelf Life

Under prescribed storage conditions the latex should maintain stable properties for at least 6 months.

REACH Regulation [Regulation Evaluation Authorization of Chemicals]

Natural rubber latex is as a polymer and natural product according to annex V paragraph 8 REACH regulations EG 1907/2006 exempt from the obligation to be registered. The material is not chemically modified but stabilized only.

SVHC [Substances of Very High Concern]

Natural rubber latex does not contain any of the substances listed as SVHC or on the candidate list.

ROHS [Restriction of Hazardous Substances Directive]

Natural rubber latex does not contain any of the following RoHS listed substances:

Lead (Pb), Mercury (Hg), Cadmium (Cd): Cadmium is used in electronic equipment, car batteries, and pigments, Hexavalent Chromium (Cr VI), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE).

Food Contact Applications

Based on good manufacturing practice according to EC 1935/2004, tests on safe use for food contact applications are invariably delegated to the responsibility of the manufacturer of a food contact article, as the risk of production for the special application cannot be covered from our side.

With our professionally equipped latex laboratory located in Terneuzen, the Netherlands, we can execute all latex relevant tests. Please feel free to make use of our services and contact us with your special request.

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