

PBNK-33 (NBR powder) Group II (PVC)

MATERIAL DATA SHEET

► **Manufacturer** “Krasnoyarsk synthetic rubber plant” JSC

► **Powdered nitrile-butadiene rubber (PBNK-33)** obtained by way of comminution of nitrile-butadiene rubber containing bound acrylonitrile (31 – 35) % with the use of special equipment so that particles having a minimum size of 1 mm are resulted at the output. PolyVinylChloride is used as an agent preventing the particles from aggregation (adhesion reducing powder).

► **Application** This product is used for manufacturing the molded and unmolded general mechanical rubber goods; it may be also used in the production of soft cable compounds and rubber compounds, in modification of plastic compounds, in the production of artificial leather and shoes, film filler materials as well as in the production of cements, joint sealants, sealing compounds and so on. The product may be also used for manufacturing the oil-and-gas resistant articles. The rubber powder form makes it possible to reduce labor costs and electric energy consumption during rubber processing and when producing the articles from it as well as it makes the process of rubber dosage batching more easy.

► **Product characteristics**

Appearance – fine powder

Packing – polyethylene bag placed into a cardboard box

Weight of a box – (25±0.5) kg

Shelf life –6 (six) months since the date of manufacture.

► **Basic properties**

Parameter	Value PBNK-33 (PVC) Group II	Test method	
Appearance	Fine powder	TY 38.30328-2008	C
Mooney viscosity MB (1+4) 100 °C (primary polymer)	61- 70	TY 38.30313-2006 TY 38.30314-2006	C
Bound acrylonitrile content, % (primary polymer)	31-35	TY 38.30313-2006 TY 38.30314-2006	C
Volatile matter content, %	≤ 0,8	TY 38.30328-2008	C
Массовая доля золы, % Ash content, %	≤ 1	TY 38.30328-2008	C



Тип антиоксиданта Antioxidant type	не окрашивающий non-staining		C
Индекс агломерации, ед. Agglomeration index, units	6-10	ТУ 38.30328-2008	C
Массовая доля остатка после просева на сите с сеткой номер 1.0, % Residual matter content after sieving on sizing screen with strainer No. 1.0, %	≤ 15	ТУ 38.30328-2008	C

► **Properties of vulcanizates**

Recipe

Parameter	Mass fraction
Каучук / Rubber	100,0
Кислота стеариновая техническая по ГОСТ 6484 марки Т-18 или Т-32 / Technical stearic acid acc. GOST 6484, grades T-18 or T-32	1,0
Белила цинковые сухие по ГОСТ 202, марки БЦОМ / Dry zink oxide acc. GOST 202, grade BCOM	3,0
Сульфенамид Ц по ТУ 2491-055-05761637 / Vulcanizing accelerator TBBS acc. Specifications TU 2491-055-05761637	0,7
Углерод технический по ГОСТ 7885, марки П-324 / Carbon black acc. GOST 7885, grade P-324	40,0
Сера техническая по ГОСТ 127.4 сорт 9995 или 9990, 1 или 2 класс / Technical sulfur acc. GOST 127.4, grade 9995 or 9990, class 1 or 2	1,5
В с е г о: /Total:	146,2

142°C×50 min.			
Условная прочность при растяжении. МПа Tensile strength, МПа	≥ 23,5	ТУ 38.30328-2008	C
Относительное удлинение при разрыве, % Elongation at break, %	≥ 450	ТУ 38.30328-2008	C

The Quality Certificate for each lot shall include the values of all parameters marked with index „C“.

Rubber PBNK-33 (PVC), group II, meets the requirements of Specifications ТУ 38.30328-2008.



Lvl.13, 167 Macquarie St
Sydney, NSW 2000
Australia

Sales department
Ph: +61 2 8667 3156
Fax: +61 2 9475 0306
email: sales@aquaries-au.com