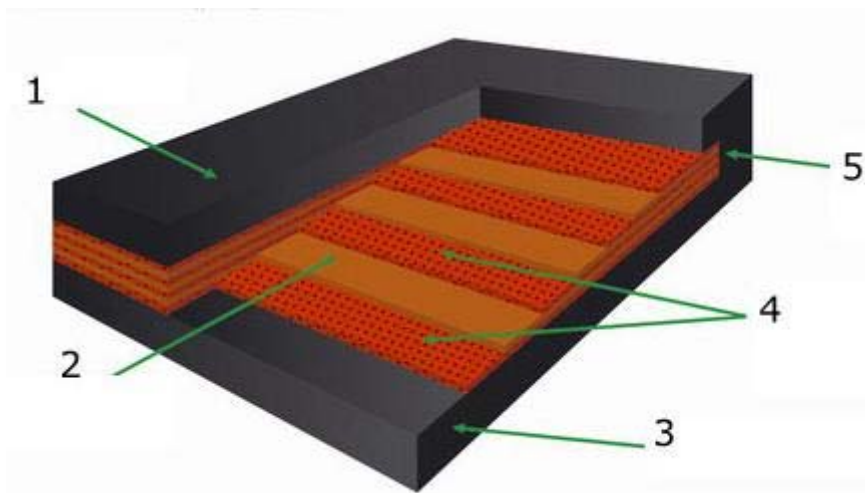


Conveyor belt structure



1. Working rubber lining, where the transported material is placed.*

Rubber interlayer, connecting the layers of Conveyor belt sealing material.

2. Idle Rubber lining*

3. Fabric-reinforced lining made of natural, synthetic or compound fiber.

4. Rubber edge, foreseen for protecting of conveyor belt from separation and aggressive influences exposing.

* – The most interesting parts for NGR of conveyor belt, because to other layers there are additional requirements on adhesion to the reinforcing materials, as well as low viscosity

GOST 20-85. Rubber conveyor belts. Specifications.

Conveyor belt types:

- 1 Acid and alkali resistant (10 MPa) – **30–50% NGR**
- 2 General purpose (15 MPa) – **10–30% NGR**
- 3 Oil resistant (10 MPa) – **10–40% NGR**
- 4 Heatproof conveyor belts (min 5 MPa (after aging)) – **up to 30%**
- 5 Cold-resistant (14 MPa) – **5–10% NGR**

Hereinunder, the more detailed requirements:

Acid and alkali resistant – **30–50% NGR**

Indicator	Value
Shore A Hardness	65
Resistance, MPa	10
Elongation, %	300
Abrasion wear, mm ³	Не более 100
Sulfuric acid resistance 30% 24 h/ 20°C (aviation grease)	0,7

General purpose – **10–30% NGR**

Indicator	H	D	L
Resistance, MPa	24	18	15
Elongation, %	450	400	350
Nominal strength alteration after aging at 70°C x168 h, %	25	25	25
Abrasion wear, mm ³	120	100	200

Oil resistant – **10–40% NGR**

Indicator	Value
Shore A Hardness	65
Resistance, MPa	10
Elongation, %	300
Abrasion wear, mm ³	Не более 120
Oil resistance at 50°C during 24 h (aviation grease)	10%

Heatproof conveyor belts – **до 30%**

Class	1	2	3	4
Hardness: Difference before and after aging	20	20	20	20
Maximal hardness after aging	85	85	85	85
Strength variation after aging, %	25	30	40	40
Minimal strength after aging	12	10	5	-
Elongation variation after aging, %	-50	-50	-55	-55

Minimal value after aging	200	200	180	180
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Cold-resistant

Indicator	H
Resistance, MPa	14
Elongation, %	350
Abrasion wear, mm ³	Not more 200
Cold-resistance at elongation under - 45°C	Not less 0,3