

SBR 1705

SKS-30 ARKM-15 Oil-Extended Styrene Butadiene Rubber

Description

SBR 1705 is an oil-extended styrene butadiene rubber. The rubber is produced by copolymerising butadiene with styrene monomer in emulsion at 5°C and by using a mixture of rosin and synthetic-acid soaps as emulsifier.

The rubber is precipitated from latex by salt and acid techniques.

SKS 30 ARKM-15 is a half-oil content SBR 1712. The necessary oil quantity is added while mixing.

Packing

- 30 kg paper bags, loose sacks or wooden pallets (each 0.45/ 0.50 MT)

Origin

Country: Russia

Note: The technical data listed in this publication are typical values. Therefore, there may be slight differences between the elements of a supplied product and the data.

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Raw Polymer: Chemical Analysis

| Property | Unit | Target |
|------------------------|------|------------|
| Oil | % | 15 - 17 |
| Free Organic Acids | % | 3.9 - 5.7 |
| Combined Organic Acids | % | max 0.3 |
| Antioxidant | % | 1.3 - 2.1 |
| Ash | % | max 0.6 |
| Weight losses at 105°C | | max 0.4 |
| Iron | % | max 0.006 |
| Copper | % | max 0.0002 |

Raw Polymer: Physical Properties

| Property | Unit | Target |
|---------------------------|---------------------|-----------|
| Mooney Viscosity* | | 45 - 55 |
| Hardness | gf | 600 - 800 |
| Recovery | mm | max 3.4 |
| Tensile Strength at break | kgf/cm ^l | min 220 |
| Elongation at Break | % | min 550 |
| Permanent Set | % | max 20 |
| Resiliens | % | min 28 |

* ML 1+4 (100°C)

Test Recipe

| Property | Parts by Weight |
|-------------------------------|-----------------|
| SBR 1705 Rubber | 100.0 |
| Gas Channel Black | 10.0 |
| Zinc Oxide | 5.0 |
| 2,2'-Benzothiazoyl Disulphide | 2.75 |
| Sulphur | 2.0 |