TECHNIC® TR100

TECHNICAL DATA SHEET

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Product:
TECHNIC® TR100

Classification
Phenolic Tacifier Resin for Rubber Industry
Alkyl Phenol Formaldehyde Resin

Composition
TECHNIC TR100 is a phenolic, thermoplastic tackifier resin. It is ideally suited for manufacturing of Tires and Mechanical Rubber goods, which require high tack levels.

Physical Properties

Physical form	: Pastilles / Flakes
Color	: Yellow to brown
Specific Gravity	: 1.00 – 1.04

Chemical Properties

Softening point (°C)	: 85 –100
Ash Content @ 750°C/2hr	: 0.1 % max
Heat Loss @ 105°C/1hr	: 0.5 % max
Acid Value (mg/KOH gm)	: 20 - 40
pH (50% Alcohol Soln)	: 4 - 7

Application
It is designed to work as a rubber tacifier giving good initial tack and tack retention. Tack is an important property for fabrication of rubber stocks. Tack or tackiness of the rubber compound is the property which allows two uncured or unvulcanised pieces of rubber to adhere to each other when brought into contact under moderate pressure. Building tack or green tack are the same and often used by the rubber processors to describe tackiness of the rubber compounds. The resin has little effect on cure. It is recommended wherever tenacious bonds are necessary, especially with synthetic rubber.

Storage
TECHNIC TR100 has no tendency to change properties during storage if kept in cool dry place in closed containers. TECHNIC TR 100 will retain its properties for at least 2 year.

Solubility
It can readily dissolved in Solvents and easily blended in the rubber stock.

Recommended Dosage
The dosage level of alkylphenolic tackifying resins depends upon the rubber compounds and their application. In general, these resins could be used in 2 to 10 phr level in SBR, BR, NBR and CR rubber compounds. With EPM or EPDM based compounds, a level of 5 to 10 phr level is recommended.

Applications
Alkylphenolic resins show excellent tack properties towards natural and synthetic rubbers. These resins could be used in the manufacture of tires, industrial hoses, conveyer belts, V-belts, rollers, rubber inner liners, wires and cables.

Handling Precaution
- Carry operations in open or under control exhaust area with respiratory protection
- Control dust formation.
- Keep container tightly closed.
- Keep away from naked flames
- Avoid inhalation of high concentration of dust.

Packaging
25 Kgs in Laminated Paper Bags.

Shelf Life
2 years from the date of manufacturing. Should store in cool and dry place.

Note:
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