TECHNIC® B18S

TECHNICAL DATA SHEET

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Product Name
TECHNIC® B18S

Classification
Dry Bonding Agents.
Resorcinol Formaldehyde Resin
Resorcinol Donor / Methylene Acceptor
Formaldehyde, Polymer with 1,3-benzenediol

Composition
Resorcinol Formaldehyde Polymer

Physical Properties

Form	: Pastilles
Colour	: Orange to Red Dark Brown
Specific Gravity @ 25°C	: 1.36 (Typical)

Chemical Properties

Softening Point (oC)	: 100 – 110
PH (50% aqueous soln)	: 4.0 – 6.0
Moisture Content	: 1.0% max
Ash Content @ 950°C/1hr	: 0.1% max
Free Resorcinol (by HPLC)	: 18% Max

Solubility

Water	: Completely soluble
Alcohol	: Completely soluble
Ketones	: Completely soluble
Aromatic Solvents	: Insoluble

Storage Properties
TECHNIC B18S is hydroscopic and must be protected from exposure to relative humidity. The resin should be stored in a cool dry place. The resin is stable for one year.

Processing Behavior
It is safe in processing.

Recommended Dosage
Between 3 to 4 phr is normally recommended for the Dry Bonding System.

Advantages
TECHNIC B18S is a reaction product of formaldehyde with resorcinol and resorcinol polymers. It is supplied in pastille form. It has low vapour pressure, thus, the fuming and weight loss that occur with processing resorcinol at temperatures above 150oC is substantially reduced with the usage of TECHNIC B18S.

Technological Properties (Usage)
Technic B18S can be used as a resorcinol component of the Dry Bonding system for adhesion of synthetic tyre cord and brass plated tyre cord to rubber. It offers a balanced combination of good adhesion and excellent flex fatigue resistance in conjunction with methylene donors like formaldehyde, Hexa methylene Tetramine (HMT) and Hexa Methoxy Methylol Melamine (HMMM) Resin through formation of an in-situ resin. The product contains nil formaldehyde.

Handling Precaution
Standard protective equipment to avoid contact with skin and eyes should be used during handling.
Washing with plenty of water is advised to be followed by a medical check-up.
Refer to MSDS for more details.

Packaging
Packed in 25 kg net weight HDPE laminated kraft paper bag.

Shelf Life
The resin is stable for 2 (two) years from the date manufacturing. It should be stored under recommended conditions.

Note:
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