

**TECHNICAL DATA SHEET**

**Issue No**  
**004/01**

**Revision Date**  
**01.10.2022**

**Product Name**  
**TECHNIC® B19S**

**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-Red Brown  
Specific Gravity @ 25°C : 1.36 (Typical)

**Chemical Properties**

Softening Point (oC) : 100 - 114  
PH (50% aqueous soln) : 4.0 – 6.0  
Moisture Content : 1.0% max  
Ash Content @ 950oC/1hr : 0.1% Max  
Free Resorcinol (HPLC) : 15% max

**Solubility**

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

**Storage Properties**

TECHNIC B19S is hygroscopic and must be protected from exposure to relative humidity. The resin should be stored in a cool dry place.

**Processing Behavior**

It is safe in processing.

**Recommended Dosage**

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

**Advantages**

TECHNIC B19S 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 150°C is substantially reduced with the usage of TECHNIC B19S.

**Technological Properties (Usage)**

Technic B19S 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, Hexamethylenetetramine and Hexamethoxymethylolmelamine 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. May be irritating to eyes and skin. Washing with plenty of water is advised to be followed by a medical check-up.  
Refer 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:**

Information in this publication is believed to be accurate and is given in good faith, but it is for the customer to satisfy itself of the suitability for its own particular purpose. Techno Products India gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that law prevents such exclusion.

**TECHNO WAXCHEM PVT. LTD.**

5<sup>th</sup> Floor, Hitech Chambers, 84/1B, Topsia Road(S), Kolkata – 700 046, WB, India

Tel: +91 33 2285 1278 / 1279, 4004 8093 / 88094

Fax: +91 33 2285 1280. Email – [info@twc.in](mailto:info@twc.in). URL – [www.twc.in](http://www.twc.in)