# PSPL CHEMTECH PYT LTD

## **PSPL CHEMTECH PVT LTD**

# Polyacrylonitrile (PAN)

# Technical Data Sheet (TDS)

#### **Description**

PSPL PAN Fibers are very fine, dry polyacrylonitrile fibers with a high resistance to chemicals, physical stress and UV radiation. Available in a variety of cut lengths (mm): 1.5, 2.0, 3.2, 4.0, 6.4, 8.0 and 12.0. Typically used at a dosage rate of 1.5 lbs/yd³ (0.9 kg/m³).

#### **Specifications:**

Specifications.	
Parameters (units)	Specifications
Appearance	Bright, yellow-gold colored fibers
Specific density, approx.(g/cm³)	1.18
Water content (%)	1±1
Polyacrylonitrile content (%)	>97
Fiber count (dtex)	0.8-1.5
Nominal diameter (µm)	7.1-12.7
Tenacity (N/mm²)	>721
Elongation at break (%)	<13
Elastic modulus (N/mm²)	>16774
Length Range:	1mm, 1.5mm, 2mm, 3mm 6mm, 12mm, 16mm, 19mm
Decomposition Temperature:	626oF / 330oC Acid
Melting Point:	>258°C
Ignition point:	>550°C



#### **Features and Benefit**

- 1. The product has excellent lost circulation properties and is effective for returning circulation in porous formations.
- 2. It can bridge gaps and provide support and suspension to the slurry design, resulting in good improvements to bond logs.
- 3. The product can prevent shrinkage of the cement, making it a reliable choice for any cementing application.
- 4. It has little effect on the rheology and viscosity of the cement slurry, ensuring consistent results.
- 5. The product outperforms Nylon and Polypropylene Based LCM Fibers in terms of its lost circulation properties, making it a superior choice for any drilling project.



## **PSPL CHEMTECH PVT LTD**

#### Packaging/Storage

20 Kg Bags

Store in a dry area protected from moisture.

#### **Health and Environmental Data**

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federalization

We warrant our products to be of good quality and will replace or, at our discretion, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, PSPL CHEMTECH PVT LTD MAKES NO WARRANTY OR GUARANTEE EXPRESS OR IMPLIEDINCLUDING WARRANTIES OF FITNESS FOR APARTICULAR PURPOSE OR MERCHANTABILITY. PSPL CHEMTECH shall have no other liability with respect thereto. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection here with. The information provided herein is based on technical data that PSPL CHEMTECH. believes to be reliable. PSPL CHEMTECH makes no representation or warranty as to the completeness or accuracy thereof and assumes no liability resulting from its use for any claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgement as to the appropriateness of its use and it is the users responsibility to assess the material's suitability (including safety) for a particular purpose prior to such use.