

## Phenolic Resins

Powder resins are essentially modified or unmodified solid phenolic novolacs that are ground with the crosslinking agent, mainly hexamethylenetetramine (Hexamine) , to a powder consistency and mixed with other additives depending on the application needs.

### Physical and chemical specifications

Parameter	Sp.BKL 3508	Sp.BKN 2509	Sp.GWH 3520	Sp.GWL 1818	Unit
Appearance	White to pale brown, free flowing powder				
Moisture content	1 max				%
Melting point	70 - 90				<sup>0</sup> C
Pass from 200 mesh	90 min				%
Volatile content	150 <sup>0</sup> c	4 max			%
	200 <sup>0</sup> c	5 max			%
Free phenol	0.5 max				%
Ash content	0.2 max	0.2 max	7 - 9	7 max	%
Hexamine content	7 - 9	7 - 9	16 - 20	13 - 16	%
Pellet flow @125 <sup>0</sup> c	30 - 55	20 - 50	30 - 50	8 - 15	mm
Curing time @ 150 <sup>0</sup> c	60 - 90	60 - 90	75 - 95	75 - 95	sec

### Major application areas

- Brake linings & Clutch Facing.
- Processing and reinforcement for rubbers like natural nitrite and SBR etc.
- Heat resistance brake linings.
- Grinding wheel.
- Shell moulding for making foundry moulds and cores.
- Bonding of cinema arc carbon & cinema electrodes.
- Lamp capping cement.

### Packing ,Handling & storage

**Packing** : 25Kgs. nett laminated polyethylene bags.

**Handling** : It is advisable to wear a dust mask while emptying the bags. Hands should be thoroughly washed at the end of the working day and before meals.

**Storage** : Storage in cool and dry place at 25<sup>0</sup>c gives stability for 6 months.