



Sona Meta Chem  
Liquid C.N.S.L Resin

# Liquid C.N.S.L Resin

LIQUID C.N.S.L RESINS are speciality resins manufactured from specially refined Cashew Nut Shell Liquid to be used as a liquid binder in wet process to manufacture Friction Materials like Brake Linings, Disc Brake Pads, Railway Brake Blocks, Clutch Facings and Roll Linings etc for economical Processing, better flexibility and soft matrix.

These are lower to very high molecular weight product, derived after a long research, keeping in mind the requirement of Friction Material manufacturers, in different viscosities. These resins can be supplied in 100% solid or special solvent cut to serve different requirements.

This product can be supplied as per our standard grades (technical data given below) or can be custom made as per customer's specification or requirement.

## WITHOUT SOLVENTS ( 100 % SOLID )

Sl	GRADES	AL 1062 L	AH 1233 M	AH 1152 H	SR 4001*
1	APPEARANCE	REDDISH BROWN COLOUR VISCOUS LIQUID			SOLID LUMPS
2	VISCOSITY @ 25°C in cps	15,000 -40,000	50,000 – 60,000	1,50,000 – 2,00,000	--
3	VISCOSITY @ 25°C in cps				
	50 % Solution Butyl Acetate	--	--	--	100 – 250
4	GEL TIME - @ 80 ± 2°C	25.0 – 35.0	20.0 – 30.0	15.0 – 25.0	--
5	GEL TIME - @ 150 ± 1°C	--	--	--	8.0 – 20.0
6	SOLID CONTENT @ 105°C	99 % min	99 % min	99 % min	--
7	SOLID CONTENT @ 135°C	--	--	--	98.0 – 100.0
8	MOLECULAR WEIGHT	LOW	MEDIUM	HIGH	--
9	pH	2.0 – 4.5	2.0 – 4.5	2.0 -4.0	--
10	ACID VALUE	10 max	10 mas	10 max	--

WITH SPECIAL SOLVENT CUT

SI	GRADES	AL 1062 L	AH 1233 M	AH 1152 H
1	APPEARANCE	REDDISH BROWN COLOUR VISCOUS LIQUID		
2	VISCOSITY @ 25°C in cps	15,000 -30,000	40,000 – 50,000	50,000 – 70,000
3	GEL TIME - @ 80 ± 2°C	25.0 – 25.0	15.0-20.0	10.0-15.0
4	SOLID CONTENT @ 105°C	82.0 ± 2.0	80.0 ± 2.0	80.0 ± 2.0
5	MOLECULAR WEIGHT	BLEND	HIGH	VERY HIGH
6	pH	2.0 – 4.0	2.0 – 4.0	2.0 -4.0
7	ACID VALUE	10 max	10 mas	10 max

NOTE: - These products can be custom made as per customer's specification or requirement against any parameter. Detailed Technical Data Sheet is available on request for each grade.