



Chlorinated Paraffin

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Yellowish viscous liquid or waxy solid (depends on chain length)
Physical Form	Liquid
Odor	Odorless
Molecular Weight (g/mol)	545.3
Density or Specific Gravity	1.35 at 77 °F
pH (if aqueous solution)	Neutral
Density	1.35 at 77 °F
pH	Neutral
Chemical Properties	
Solubility	Insol in water; slightly sol in alcohol; miscible with benzene, chloroform, ether, carbon tetrachloride
Thermal Properties	
Boiling Point	Decomposes
Flash Point	greater than 450 °F
Thermal Stability	Stable under recommended storage

2. Processing Methods



PVC products

Incorporate CP during the plasticizing phase, after the primary plasticizer (e.g., DOP) is added, ensuring homogeneous dispersion in the PVC matrix. Choose the grade (e.g., CP-52, CP-60, CP-70) based on chlorine content and viscosity.

Key Ingredients	Indicative Dosage (% w/w)
Polyvinyl Chloride (PVC K-67 resin)	35%
Chlorinated Paraffin	25%
Dioctyl Phthalate	15%
Calcium Carbonate	18%
Lead-based Stabilizer (or Ca-Zn alternative)	2%
Stearic Acid	0.5%
Epoxidized Soybean Oil	3%

Rubber Finishing Paint

Incorporate CP into the resin solution or solvent phase under gentle stirring. Ensure it dissolves fully in aromatic or chlorinated solvents like toluene or xylene for uniform distribution.

Key Ingredients	Indicative Dosage (% w/w)
Chlorinated Rubber	19-21%
Chlorinated Paraffin (mix of CP-70 and CP-52)	8-13%
Titanium Dioxide	23-25%
Organic Bentonite	1-2%
Talcum Powder	3-8%
Precipitated Barium Sulfate	5-11%
Dispersing Agent	0.3-0.8%
Solvent (e.g., xylene/toluene blend)	27-32%



Conveyor Belt Compound

Incorporate CP after the elastomer and primary plasticizers have been added. CP is heavier and more polar than standard processing oils. Adjust the aromatic or paraffinic oil content to maintain compound flow, extrusion characteristics, and tack.

Key Ingredients	Indicative Dosage (% w/w)
Diene-based Rubber (NBR/SBR/BR blend)	50%
Chlorinated Paraffin (Cl ~70%)	15%
Carbon Black	20%
Antimony Trioxide	3%
Sulfur	1%
Hydrazide	1%
Process Oils & Additives	10%
Sulfur	1%

3. Dosing by Application

Products	Authorized dosage %
PVC & Plastics (secondary plasticizer, flame retardant)	5-15%
Paints, coatings, adhesives, sealants	3-10%

4. Grade Comparison Summary

Parameter	Technical/General Grade
Chlorine Content (% by weight)	40-65%
Carbon Chain Length	C14-C17 (may include C13-C18)
Appearance	Yellow to brown liquid
Applications	Rubber, hoses, mats, adhesives
Regulatory Status (U.S.)	Non-food/industrial only
Environmental Concern	Varies

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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