

# TECHNICAL SHEET

**Chemical Name:** No.CAS: 9002-86-2

Abbreviation: PVC

## General Description:

Polyvinyl Chloride (PVC) is a fine, white, odorless powder, soluble in ketones and tetrahydrofuran. The product is obtained through the polymerization of vinyl chloride suspension.

PVC's major benefit is its compatibility with many different kinds of additives, making it a highly versatile polymer. This compatibility with additives allows for the possible addition of flame retardants although PVC is intrinsically fire retardant because of the presence of chlorine in the polymer matrix.

PVC has excellent electrical insulation properties, making it ideal for cabling applications, weatherproof and impact strength (ideal for electrical cables and construction materials).

PVC Suspension for plasticized processing can only be used in mixture with the appropriate additives able to render the polymer the properties such to be processed in a useful finished product. Depending on the plasticizer content, it results a semi-rigid finished product (low plasticizer content), flexible finished product (high plasticizer content).

OLTVIL 1 70100 is a PVC grade indicated for use in plasticized applications.

OLTVIL 1 70100 is recommended for formulation of vinyl compounds used especially for extrusion processing or by calendering.

## Quality Technical Conditions

Characteristics	MU	Limits	Testing methods
Appearance		White fine powder	visual
K - value		69.0-71.0	SR EN ISO 1628/1.2
Moisture and volatile constituents, max.	%	0.4	ASTM D 3030
Bulk density-unsettled	g/cm <sup>3</sup>	0.45-0.51	SR EN ISO 60
Impurities and black points, max .	no./dm <sup>2</sup>	4	SR EN ISO 1265
Plasticizer absorption, min.	%	95	ASTM D 1755
Calcinations residues, max.	%	0.04	SR EN ISO 3451/5
Residue on the sieve of: - 0.250 mm, max. - 0.063 mm, min.	% %	1 95	SR EN ISO 4610
Vinyl chloride residue, max.	ppm	1	ISO 6401

## Specific Properties:

Ignition temperature	391°C
Decomposition temperature	>120°C
Self-ignition temperature	454°C (in layer)

*The values of those characteristics are approximated, and are only for general information and are not part of the technical quality conditions.*

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## Main applications:

- wire and cable insulations
- transparent or mat sheets
- flexible profiles
- plasticized granules
- shoes plastic soles
- garden hose
- medical accessories
- packing

## Packing and storage:

- valve paper bags, 25 kg net (permissible limits  $\pm 0.2\text{kg}$ ), palletized and wrapped with polyethylene film
- 1100 kg big bags of polypropylene lined with polyethylene (permissible limits  $\pm 5\text{kg}$ ).
- silo-wagons, property of supplier or client;
- silo-trucks, property of client.

The product is stored in cool, dry and well-vented areas far from inconsistent materials.

Earthed storage silos are recommended as PVC presents the risk of electrostatic energy storage.

## Safety Considerations:

Before handling and using of product, the personnel must be aware of the dangers implied. This information is available in MSDS and on the product label.

## Attention:

Please contact **Anemona Spedition** to see if the document has been revised and for any other additional information related to the product.

◆= registered trade mark of AS

## Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.