



STP 032 / 2014
It replace STP 032B/2005

TECHNICAL SPECIFICATION FOR PRODUCT CALCIUM CHLORIDE SOLUTION

APPROVED,
GENERAL MANAGER
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1. GENERALITIES

1.1. COMMERCIAL NAME: **CALCIUM CHLORIDE –SOLUTION TECHNICAL**

1.2. CHEMICAL NAME: **CALCIUM CHLORIDE**

1.3. FIELD OF USAGE: Product is used in: chemical industry, paper industry, freezing technique, constructions, nonferrous metallurgy, construction and exploitation of the roads, as drying agent for gases and liquids, in order to control the dust from the roads, sports ground and in the mining, to struggle against with the glazed frost, with the ice and with the snow on the roads, in the oil extraction industry.

2. TEHNICAL CONDITIONS FOR QUALITY

No.	Property	MU	Conditions for admissibility		Analysis methods
			Type 35	Type 34	
1.	Appearance	-	clear liquid at weak opalescent	clear liquid	visually
2.	Color	-	colorless at yellowish or grey	yellow grey or greenish	visually
3.	Calcium chloride content	%	min. 35	min. 34	STAS 2073-75
4.	Water insoluble content	%	max. 0.1	-	STAS 2073-75
5.	Iron content	%	max. 0.01	-	STAS 2073-75
6.	Alkaline chlorides and magnesium chloride content expressed in sodium chloride	%	max. 0.5	-	STAS 2073-75
7.	Sulfates (SO ₄) content	-	missing	missing	STAS 2073-75
8.	Chlorates content (ClO ₃)	-	missing	missing	STAS 2073-75
9.	Acidity	-	missing	missing	STAS 2073-75

3. PACKING

The product is packed in:

- railway tank, road tanker
- eco-bulk –agreed by ADR
- other packing that provides quantitative and qualitative integrity of product

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4. MARKING, HANDLING, STORAGE, TRANSPORT, DOCUMENTS

4.1. Marking of packages is made by template / labeling at visible places with the following specifications:

- name of manufacturing company
- product name according to STP no. 032/2014
- lot number (no. of packing)
- net mass
- signal word
- pictogram: pictogram code, graphic sign of hazard pictogram
- hazard statements (H...)
- precautionary statements (P...)
- EC No corresponds with the EINECS inventory
- manufacturing date
- validity term

4.2. Handling require cautions applicable for a irritating product.

Protective equipment to be used: gas mask with polyvalent filtering cartridge, dust mask, rubber gloves, protective goggles, anti-acid overall, acid resistant rubber boots.

Avoid handling, storage and transport together with: strong basis (e.g.: sodium hydroxide, potassium hydroxide) oxidizing agents, water, zinc, barium chloride, aluminum and his alloys.

4.3. Product is stored and kept in its original package (tightly closed), in clean and dry warehouses away from humidity, direct action of any heating sources and from the incompatible substances.

The product is hygroscopic property.

4.4. Product transport is made by covered means of transport.

According RID/ ADR last edition, the product is not included into any danger class.

4.5. Each lot of product will be accompanied by a document for quality certification elaborated according to legal provisions in force.

5. VALIDITY TERMS

In conditions for storage and transport provided at item 4, **validity term of the product is of 4 years** from manufacturing date.

6. RULES FOR QUALITY CHECKING

6.1. Checking of quality is made by:

- lots check
- periodicals check

The lot checking made up of:

- determination of appearance
- determination of color
- determination of calcium chloride content
- determination of iron content
- acidity identification



The periodical checking are made at 3 month, or at the requirement of client, for one of the lot who is check in respectively period.

The periodical checking made up of:

- determination of alkaline chlorides and magnesium chloride content
- determination of water insoluble content
- determination of sulfates content
- chlorates identification

The characteristics provided for periodical checking are guaranteed by the producer.

6.2. Size of a lot is correspondent to capacity of a tank, road tank or packing type.

6.3. At checking, product has to meet all the technical conditions for quality provided at point no 2.

6.4. Checking of product characteristics is made on a sample, sampled in the following mode:

- from railway tank – from each railway tank
- from road tank – from each road tank
- from little package: checking, of product characteristics is made on a representative average sample, sampled according to schedule for checking quality AQL = 0,1% (ISO 2859-1:2009).

The elementary samples are sampled by means of a glass tube or stainless steel which is introduced into the packing, so that it will fill in from the whole height of product layer.

Average representative sample is obtained by homogenization of elementary samples

Flasks with probe are sealed and provided with labels which contain the following specifications:

- name of manufacturing company
- product name according to STP no. 032 /2014
- lot number (tank, tank truck)
- packages type
- sampling date / hour
- name and signature of person who made the sampling

6.5. The inspection concerning net mass and the mode of product marking is made according to schedule for quality checking AQL=2,5 (SR ISO 2859-1:2009).

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SUPPLIER:

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