



CHIMCOMPLEX S.A. BORZESTI – ROMANIA

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STP No. 047 / 2021
It replace STP no. 047/2006

TECHNICAL SPECIFICATION FOR PRODUCT FERRIC CHLORIDE SOLUTION 40%



1. GENERALITIES

1.1. COMMERCIAL NAME: FERRIC CHLORIDE SOLUTION

1.2. CHEMICAL NAME: FERRIC CHLORIDE

1.3. OBTAINING AND FIELD OF USE: The product is obtained through reaction of chlorine with ferric scrap, within redox ($FeCl_2$, $FeCl_3$) environment, in presence of hydrochloric acid.

The product is used as coagulating agent for purification of water, oxidizing agent within chemical industry, within pharmaceutical industry and within electronics.

2. TECHNICAL QUALITY CONDITIONS

No. crt.	Characteristics	MU	Admissibility conditions	Analysis methods
1.	Appearance	-	Brown- reddish liquid	visual
2.	Relative density at 20°C, d_4^{20}	-	min. 1,42	SR EN ISO 3675:2002
3.	Ferric chloride content ($FeCl_3$)	%	min. 40	STAS 8650-70
4.	Iron content (Fe^{2+})	%	max. 0.5	STAS 8650-70
5.	Free acidity (expressed as HCl)	%	max. 1	STAS 8650-70

3. PACKING

The product is packed in:

- railway tank, road tanker anticorrosive protected, agreed by RID/ADR
- containers (ecobulk) made of materials compatible with the product, stored on a wooden pallet, agreed by ADR
- other packing that provides quantitative and qualitative integrity of product, agreed by ADR

APPROVAL DATE
10.05.2021

DATE FOR
COMING INTO FORCE
10.05.2021



4. MARKING, HANDLING, STORAGE, TRANSPORT, DOCUMENTS

4.1. Marking of package is made through painting with a template at a visible place, with following specifications:

- Name of producer
- Name of product and type according to STP no. 047/2021
- Signal word
- Graphic sign corresponding to the danger symbol
- Printing of signification of danger symbol
- Hazard statement (H...)
- Precautionary statement, (P...)
- Allocation of the CAS no.
- Allocation of the EINECS no.
- Number of lot (except to the railway tank, road tanker)
- Production date (except to the railway tank, road tanker)
- Term of validity (except to the railway tank, road tanker)
- Transport warning sign "Corrosive liquid" (label no. 8 according to ADR / RID)

4.2. Handling imposes precautions applicable to corrosive products.

Protective equipment to be used: rubber gloves, goggles, anti-acid overall, rubber boots acid and basis resistant.

Avoid handling, storage and transport together with: hypochlorite (e.g.: sodium hypochlorite), strong basis (e.g.: sodium hydroxide, potassium hydroxide), carbonates, sulfurs (e.g.: sodium sulfur).

4.3. The product is stored in original packing or in anticorrosive protected tanks, within sealed closing conditions; the storage area must be proper ventilated conditions, protected against heat (maximum recommended temperature is 30°C), humidity and weatherproof conditions, away from flammable, combustible and or incompatible substances.

In case of storing of product for long periods of time, at temperatures lower than -15°C it is possible to appear deposits of crystals. These can be dissolved by increasing of temperature at approx. 25°C; it is recommended to stir the solution if it is possible.

4.4. Transport of product is made by anticorrosive protected railway tank or road tanker, agreed by ADR/RID.

According to ADR/RID last edition, the product is included within hazard class 8, classification code: C1 (inorganic liquid, acid, corrosive), identification number UN: 2582, hazard identification number HI: 80. Hazard label applied is no. 8.

4.5. Each lot of products will be accompanied by a document that proves the quality according to valid regulations in force.

5. TERM OF VALIDITY

Within conditions of storage and transport provided at point 4, the term of validity of product is 2 years from manufacturing date.



6. RULES FOR CHECKING OF QUALITY

6.1. Checking of quality is made on lots.

6.2. The size of a lot depends on packing used as follows:

- corresponds to the capacity of a railway tank, in case of packing in railway tank
- corresponds to the capacity of tank, in case of packing in road tank or other type of packages
- in case of packing in containers (eco-bulk) or other type of packages, the size of a lot is maximum 20.000 kg

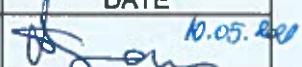
6.3. During checking the product must comply with all technical and quality conditions provided at point 2.

6.4. Checking of the products characteristics is made by an average sample formed by some elementary samples that were sampled as follows:

- railway tank/ road tanker: from each railway tank/ road tanker;
- other type of packages: the elementary sample are sampled according to the Schedule for quality checking AQL = 0,1%, simple sampling, normal level checking.

6.5. The inspection concerning net mass and the mode of product marking and packing, is made according Schedule for quality checking AQL = 2,5%, simple sampling, normal level checking.

SUPPLIER:

TECHNICAL OFFICE	SIGNATURE / DATE	HEAD OF TECHNICAL OFFICE	SIGNATURE / DATE
eng. Adriana Prisacariu	 10.05.2021	eng. Camelia Banica	 10.05.2021