



TIMNA COPPER MINES Ltd

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Product Specification

Copper Sulphate Pentahydrate

Regular Technical Grade

Description

Blue crystals, nominal 0.1-0.6 mm, dry, odorless, free-flowing and dustless. No anti-caking agent is added as there is no need for it.

Chemical Analysis

	Guaranteed	Typical
CuSO₄·5H₂O	99.5% min	99.90%
Copper	25.5% min	25.87%
Iron	230 ppm max	154 ppm
Zinc	180 ppm max	78 ppm
Lead	30 ppm max	14 ppm
Nickel	35 ppm max	14 ppm
Arsenic*	0.4 ppm max	0.05 ppm
Mercury*	0.2 ppm max	0.04 ppm
Cadmium*	0.3ppm max	0.2 ppm
Chromium	5 ppm max	3 ppm
Chlorides	150 ppm max	63 ppm
Water Insoluble	0.2% max	0.07%
Free moisture	Nil	Nil
Free acidity	Nil	Nil

*Tested periodically

Size Distribution (Tyler mesh)

+28 (0.6 mm)	0 – 2%
+48 (0.3 mm)	15 – 35%
+100 (0.15 mm)	30 – 45%
+200 (0.075 mm)	20 – 40%
+325 (0.045 mm)	2 – 7%
<325	0 – 3%



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Standard Packaging

25 kg polyethylene-lined polypropylene bags
675/1000 kg polyethylene-lined polypropylene big-bags

Storage and Handling Conditions

Copper sulfate pentahydrate should be stored in closed containers in a cool, dry and well-ventilated place, away from heat sources and reducing agents. Store copper sulfate in polypropylene, PVC, plastic, stainless steel or fiberglass containers. If container or bag is damaged, place the container or bag in a plastic bag. Use good housekeeping practices to avoid dust accumulation. Do not put leaking containers into storage. Do not store near any material intended for use or consumption by humans or animals. Keep out of the reach of children. Copper sulfate is very toxic to aquatic organisms!

Precautions to be taken:

Personal protective equipment should be used whilst handling copper sulfate. Avoid breathing dust or solution mist. Sweep up crystals or powder, vacuum is preferred. Eye wash station should be available in work areas. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove personal protective equipment immediately after handling copper sulfate. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Shelf Life

Shelf life of two years is guaranteed provided that proper storage conditions (as described above) are ensured.

Dotan Josef
Quality Manager, TIMNA COPPER MINES Ltd.

