



## **TIMNA COPPER MINES Ltd**

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## **Product Specification**

### **Copper Sulphate Pentahydrate**

#### ***Regular 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**

	<b>Guaranteed</b>	<b>Typical</b>
<b>CuSO<sub>4</sub>·5H<sub>2</sub>O</b>	<b>99.5% min</b>	<b>99.90%</b>
<b>Copper</b>	<b>25.5% min</b>	<b>25.87%</b>
<b>Iron</b>	<b>230 ppm max</b>	<b>154 ppm</b>
<b>Zinc</b>	<b>180 ppm max</b>	<b>78 ppm</b>
<b>Lead</b>	<b>30 ppm max</b>	<b>14 ppm</b>
<b>Nickel</b>	<b>35 ppm max</b>	<b>14 ppm</b>
<b>Arsenic*</b>	<b>0.4 ppm max</b>	<b>0.05 ppm</b>
<b>Mercury*</b>	<b>0.2 ppm max</b>	<b>0.04 ppm</b>
<b>Cadmium*</b>	<b>0.3ppm max</b>	<b>0.2 ppm</b>
<b>Chromium</b>	<b>5 ppm max</b>	<b>3 ppm</b>
<b>Chlorides</b>	<b>150 ppm max</b>	<b>63 ppm</b>
<b>Water Insoluble</b>	<b>0.2% max</b>	<b>0.07%</b>
<b>Free moisture</b>	<b>Nil</b>	<b>Nil</b>
<b>Free acidity</b>	<b>Nil</b>	<b>Nil</b>

\*Tested periodically

#### **Size Distribution (Tyler mesh)**

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



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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 yosef  
Quality Manager, TIMNA COPPER MINES Ltd.

