

**Material Safety Data Sheet**  
**Pure Filler Metals and Welding Rods**

Product Trade Name/Product Classification(s): PURE TUNGSTEN ELECTRODES  
 ESSENTIALLY SIMILAR to U.S. Department of Labor Form OSHA 20 (to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200)

|   |   |
|---|---|
| <p><b>SECTION 1: Identification</b></p> <p>GT &amp; S, INC. Phone: 5275 Pillingham Street 610-Allenstown, PA 18104 398-2211</p> <p>Product Trade Name/Product Classification(s): PURE TUNGSTEN ELECTRODES</p>   | <p><b>SECTION 2: Hazardous Ingredients/Identity Info.</b></p> <p>IMPORTANT: THIS SECTION COVERS MATERIALS FROM WHICH THIS PRODUCT IS MANUFACTURED.</p> <p>BASE METAL: TUNGSTEN 100%</p>   |
| <p><b>SECTION 3: Physical Properties</b></p> <p>Boiling Point: 5900°C Specific Gravity: 19.3 G/MCC<br/>             Vapor Pressure (mm Hg): @1527°C: 1.53 X 10<sup>-15</sup><br/>             Percent Volatile by Volume (%): NA<br/>             Expansion Rate: NA Vapor Density: (AIR=1): NA<br/>             Appearance and Color: Base rods all sizes and shapes: Silver/Grey in color</p>   | <p><b>SECTION 4: Fire and Explosion Hazard Data</b></p> <ul style="list-style-type: none"> <li>Flash Point: NA</li> <li>Extinguishable Media: Will not burn, use water to cool</li> <li>Special Fire Fighting Procedures: None currently known</li> <li>Unusual Fire and Explosion Hazards: None currently known</li> </ul>   |
| <p><b>SECTION 5: Health Hazard Data</b></p> <p>Effects of Overexposure and Emergency and First Aid Procedures: Electric shock and burns:</p> <p>Deactivate power. Administer CPR as required. Cover burns with sterile dressing. Call a physician. Radiant Energy can produce "flash" burns of eyes and skin. See a physician. Gases, fumes, and dust overexposure can cause personal injury. Symptoms will vary according to the process and its application. Refer to special instruction in Section 9. Noise overexposure can damage hearing. Wear hearing protection.</p>                                   | <p><b>SECTION 6: Reactivity Data</b></p> <p>Stability: Stable. Materials to Avoid: Strong oxidizing agents<br/>             Conditions to Avoid: Elevated temperatures in an oxidizing environment<br/>             Hazardous Polymerization: None currently known</p>  |
| <p><b>SECTION 8: Special Protection Information</b></p> <ul style="list-style-type: none"> <li>Respirator Protection: Depends on use, condition, and location. Use adequate ventilation or personal respiratory protection.</li> <li>Ventilation: Local ventilation recommended. See OSHA 29 CFR 1910.252 &amp; ANSI Z49.1. In confined areas local exhaust is essential. See ANSI Z49.1 for mechanical ventilation.</li> <li>Eye Protection: Safety spectacles or goggles.</li> <li>Other Protective Equipment: See ANSI Z49.1. Welding helmet, flame resistant clothing recommended. See AWS C5.3.</li> </ul> | <p><b>SECTION 7: Spill or Leak Procedures</b></p> <p>Waste Disposal Method: Normal, environmentally acceptable. Hazardous waste disposal, land fill, burial, etc.</p>   |
| <p><b>SECTION 9: Special Precautions</b></p> <p>Arcs and sparks during use could be the source of ignition of combustible materials. Arc fumes: The composition and quantity are dependent on the alloy, electrode, number of operators, arc ventilation present, and the relationship of operators head with respect to the fume plume, all affect the level of contaminants. See OSHA CFR 1910.252 &amp; ANSVZ49.1 &amp; AWSF1.1.</p>   | <p><b>SECTION 10: DISCLAIMER</b></p> <p>ALTHOUGH RESPONSIBLE CARE HAS BEEN TAKEN IN THE REPRESENTATION OF THE INFORMATION HEREIN, IMPLIED EXTENSIVE NO WARRANTIES, EXPRESS OR IMPLIED, MAKES NO REPRESENTATIONS AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUFFICIENCY OF INFORMATION FOR APPLICATION TO PURCHASER'S INTENDED PURPOSES OR FOR CONSEQUENCES OF ITS USE. JUDGMENTS AS TO THE SUITABILITY OF INFORMATION FOR PURCHASER'S PURPOSES ARE PURCHASER'S RESPONSIBILITY.</p> |

**Material Safety Data Sheet**  
**Pure Filler Metals and Welding Rods**

Product Trade Name/Product Classification(s): PURE TUNGSTEN ELECTRODES  
 ESSENTIALLY SIMILAR to U.S. Department of Labor Form OSHA 20 (to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200)

|   |   |
|---|---|
| <p><b>SECTION 1: Identification</b></p> <p>GT &amp; S, INC. Phone: 5275 Pillingham Street 610-Allenstown, PA 18104 398-2211</p> <p>Product Trade Name/Product Classification(s): PURE TUNGSTEN ELECTRODES</p>   | <p><b>SECTION 2: Hazardous Ingredients/Identity Info.</b></p> <p>IMPORTANT: THIS SECTION COVERS MATERIALS FROM WHICH THIS PRODUCT IS MANUFACTURED.</p> <p>BASE METAL: TUNGSTEN 100%</p>   |
| <p><b>SECTION 3: Physical Properties</b></p> <p>Boiling Point: 5900°C Specific Gravity: 19.3 G/MCC<br/>             Vapor Pressure (mm Hg): @1527°C: 1.53 X 10<sup>-15</sup><br/>             Percent Volatile by Volume (%): NA<br/>             Expansion Rate: NA Vapor Density: (AIR=1): NA<br/>             Appearance and Color: Base rods all sizes and shapes: Silver/Grey in color</p>   | <p><b>SECTION 4: Fire and Explosion Hazard Data</b></p> <ul style="list-style-type: none"> <li>Flash Point: NA</li> <li>Extinguishable Media: Will not burn, use water to cool</li> <li>Special Fire Fighting Procedures: None currently known</li> <li>Unusual Fire and Explosion Hazards: None currently known</li> </ul>   |
| <p><b>SECTION 5: Health Hazard Data</b></p> <p>Effects of Overexposure and Emergency and First Aid Procedures: Electric shock and burns:</p> <p>Deactivate power. Administer CPR as required. Cover burns with sterile dressing. Call a physician. Radiant Energy can produce "flash" burns of eyes and skin. See a physician. Gases, fumes, and dust overexposure can cause personal injury. Symptoms will vary according to the process and its application. Refer to special instruction in Section 9. Noise overexposure can damage hearing. Wear hearing protection.</p>                                   | <p><b>SECTION 6: Reactivity Data</b></p> <p>Stability: Stable. Materials to Avoid: Strong oxidizing agents<br/>             Conditions to Avoid: Elevated temperatures in an oxidizing environment<br/>             Hazardous Polymerization: None currently known</p>  |
| <p><b>SECTION 8: Special Protection Information</b></p> <ul style="list-style-type: none"> <li>Respirator Protection: Depends on use, condition, and location. Use adequate ventilation or personal respiratory protection.</li> <li>Ventilation: Local ventilation recommended. See OSHA 29 CFR 1910.252 &amp; ANSI Z49.1. In confined areas local exhaust is essential. See ANSI Z49.1 for mechanical ventilation.</li> <li>Eye Protection: Safety spectacles or goggles.</li> <li>Other Protective Equipment: See ANSI Z49.1. Welding helmet, flame resistant clothing recommended. See AWS C5.3.</li> </ul> | <p><b>SECTION 7: Spill or Leak Procedures</b></p> <p>Waste Disposal Method: Normal, environmentally acceptable. Hazardous waste disposal, land fill, burial, etc.</p>   |
| <p><b>SECTION 9: Special Precautions</b></p> <p>Arcs and sparks during use could be the source of ignition of combustible materials. Arc fumes: The composition and quantity are dependent on the alloy, electrode, number of operators, arc ventilation present, and the relationship of operators head with respect to the fume plume, all affect the level of contaminants. See OSHA CFR 1910.252 &amp; ANSVZ49.1 &amp; AWSF1.1.</p>   | <p><b>SECTION 10: DISCLAIMER</b></p> <p>ALTHOUGH RESPONSIBLE CARE HAS BEEN TAKEN IN THE REPRESENTATION OF THE INFORMATION HEREIN, IMPLIED EXTENSIVE NO WARRANTIES, EXPRESS OR IMPLIED, MAKES NO REPRESENTATIONS AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUFFICIENCY OF INFORMATION FOR APPLICATION TO PURCHASER'S INTENDED PURPOSES OR FOR CONSEQUENCES OF ITS USE. JUDGMENTS AS TO THE SUITABILITY OF INFORMATION FOR PURCHASER'S PURPOSES ARE PURCHASER'S RESPONSIBILITY.</p> |