

DATA SHEET FOR MULTI TYPE TUNGSTEN

1.0 CHEMICAL SPECIFICATION

- 1.1 98% Tungsten + 2% Fullers Earth
 1.2 **Form** : bar-shaped
 1.3 **Colour** : Turquoise
 1.4 **Smell** : scentless

2.0 TECHNICAL SAFETY AND PHYSICAL DATA Inspection by:

- | | | | |
|------|---|--|--------------------------------|
| 2.1 | Partition change | Melting Point | Over 3000° C |
| | | Evaporizing Point | Over 4200° C |
| 2.2 | Density | (20° C) | approx. 18.8 g/cm ³ |
| | Bulk Density | | _____ kg/m ³ |
| 2.3 | Vaporization pressure | (° C) | non transient _____ mbar |
| | | (° C) | _____ mbar |
| 2.4 | Viscosity | (° C) | non viscous _____ mbar |
| 2.5 | Solubility in water | (20° C) | non soluble _____ g/l |
| | in | (° C) | _____ g/l |
| 2.6 | PH index (at 5 g/H₂O) | (20° C) | |
| 2.7 | Inflammability | _____ ° C non applicable | _____ ° C |
| 2.8 | Ignition temperature | _____ ° C non applicable | _____ ° C |
| 2.9 | Explosion limits | minimum | maximum |
| 2.10 | Thermal decomposition | No dangerous chemical reaction under normal | |
| 2.11 | Dangerous decomposition products | temperatures. | |
| 1.12 | Dangerous/toxic reaction | From 500°C onwards oxidation to tungsten WO. | |
| 2.13 | Miscellaneous | | |
| 3. | TRANSPORT | GGVSee/IMDG-Code : | UN-No: ICAO/IATA-DGR |
| | | GGVE/GGVS: | RID/ADR: ADNR: |

4. REGULATIONS

Regulations only applicable and valid for the TIG welding procedure, see item 5.

5. SAFETY INSTRUCTIONS FOR STORAGE AND OPERATION

5.1 Technical safety instructions

During the process of TIG welding, well-working ventilation and air circulation must be provided as well as exhausting device to absorb welding fume.

5.2 Personal protection gear

- Oxygen mask - not necessary when adequate ventilation is provided
 Hand protection - welding gloves

Eye protection - welding goggles or welding shield
Miscellaneous - there is no danger of possible emerging radioactive
Thorium regarding operation and storage of
electrodes

5.3 **Occupation hygiene** see VDI pages

5.4 **Fire and explosion protection** – no particular measurements necessary

1.5 Disposal

Electrodes may not be disposed together with conventional waste or household trash. Rest pieces must be disposed of according to the respective regulations of each country.

1.0 MEASURES NECESSARY IN CASE OF FIRE AND ACCIDENTS

1.1 After spilling, leaking, gas leakage

1.2 Extinguishing agent

Suitable materials

Not suitable materials no restrictions

1.3 First Aid

In case of prolonged inhaling of welding fume, the person concerned must be supplied with fresh air.

In case of burns, eye or nose irritation, a physician must be consulted.

7.0 INFORMATION ON TOXICOLOGY

There is no danger of poisoning or infection in case of mechanical injuries with the electrodes. Damages caused by TIG welding are unknown.

8.0 INFORMATION ON ECOLOGY

Proper operation does not cause undue exhaust responsible for the increase of air, water and soil pollution.

9.0 FURTHER REMARKS REGARDING RADIOACTIVITY

WS 2 material is mainly used for TIG welding electrodes.