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TUNGSTEN ELECTRODES 2% THORIATED

Tungsten chemical composition 99.8% ThO₂ 1, 70 to 2, 20%

1.1 **Form** : bar-shaped

1.2 Colour : red 1.3 Smell : scentless

2.0 TECHNICAL SAFETY AND PHYSICAL DATA

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2.1	Partition change	Melting Point		Over 3000° C			
		Evapor	rizing Point	Over 4200° C			
2.2	Density	(20°C)	approx.	18.8 g/cm	1^3		
	Bulk Density			kg/n	1^3		
2.3	Vaporization pressure	(°C)	non transient	mba	r		
		(°C)		mba	r		
2.4	Viscosity	(°C)	non viscous				
2.5	Solubility in water	(20°C)	non soluble	g/l			
	in	(°C)		g/l			
2.6	PH index (at 5 g/H_20)	(20°C)					
2.7	Inflammability	°C non a	pplicable	° C			
2.8	Ignition temperature		pplicable	° C			
2.9	Explosion limits	minimum limi	t	maximum limit			
2.10	Thermal decomposition	No dangerous	chemical react	ion under n	ıormal		
2.11	Dangerous decomposition	temperatures.					
	products						
2.12	Dangerous/toxic reaction	From 300°C onwards oxidation to tungsten					
		oxide WO ₃ . A	bove 850°C ev	aporation o	of built		
		up tungsten ox	ides WO ₃ yello	W.			
2.13	Miscellaneous						
3.	TRANSPORT	GGVSee/IMD	G-Code: UN-	No: ICA	O/IATA-DGR		

4. **REGULATIONS**

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

RID/ADR: ADNR:

GGVE/GGVS:



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5. SAFETY INSTRUCTIONS FOR STORAGE AND OPERATION

5.1 Technical safety instructions

During the process of WIG 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

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 has to consult a person. In case of burns, eye or nose irritation, a physician must be consulted.

7.0 INFORMATION ON TOXICOLOGY

Avoid the incorporation of thoriated tungsten gases or particle.

8.0 INFORMATION ON ECOLOGY

A regular relation breeching not air, water and floor.

9.0 FURTHER REMARKS REGARDING RADIOACTIVITY

WP material is mainly used for WIG welding electrodes.