

Peters House, The Orbital Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1ET, United Kingdom

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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Manufacturer/Supplier Name Telephone Number WWS Weldability

01462 482200

Address: Peters House, Orbital Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1ET Product Type:

Coated electrode for manual arc welding. In accordance to EC Directive no. 92/32/CEE, 91/155/CEE, 88/379/CEE,

93/112/CEE. **AWS Classification/Part number** Trade Name Weldability 6013 TX60132050- TX60135050

2. COMPOSITION/INFORMATON ABOUT INGREDIENTS

Low-alloy electrode (Welds metal containing <5% Cr, <1% Ni, <1% Co). No substances classifiable as toxic and/or noxious.

Core = Carbon Steel:

Verified Coating

Fe> 99% Mn = 0.3 + 0.7%% Rutile (Ti o2) =60% Max Silicates =30% Max

Ferroalloy (Mn Si) =10% Max Carbonates =5% Max

3. IDENTIFICATION OF DANGERS

The product is harmless as it is. Dangers when used:

UV and Infrared radiation, heat and noise generated by electric arc.

Fumes/Welding gases. Electric Shocks (Welding Systems)

4. FIRST-AID MEASURES (DURING USE)

Respiratory Tract (Fumes inhalation) Bring the injured person to a ventilated place

Hands/Skin (Burns, erythema) Stop exposure Eves (Arc glow &/or fumes) Dampen with fresh water

Should symptoms persist, consult a physician.

5. FIRE PREVENTION MEASURES

No specific direction. When using the product, keep flammable materials away from the work area.

6. MEASURES IN CASE OF ACCIDENTAL LEAKAGE.

Not applicable.

7.HANDLING AND STORAGE

High-density solid product; avoid storing in unstable positions; handle with care; protect your hands and feet.



8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION (DURING USE)

Fumes and welding gases are developed when using the product: operate in a sufficiently ventilated place and/or install fumes extractors on the welding area.

Name	CAS No	TLV mg/m3
Mn Oxides	743998-5	0.2
Si Oxides (as Si fumes)	69012-64-2	2
Fe Oxides	1309-37-1	5
Welding fumes - fire powders (NOC)		5
Titanium dioxide	13463-67-7	10
Breathable Particles (PNOC)		3

Protective Measures:

Respiratory Tract Avoid inhaling fumes/gases: be sure there is enough

Ventilation and/or fume extractors are available.

Ears Use ear protectors and/or earplugs. Hands Use welding gauntlets.

Eyes Use helmets with suitable shielding glass.

Skin Cover exposed areas with appropriate clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State Solid Smell Odourless Melting point 1600oc Boiling point N.A. Flash point N.A. **Explosive Properties** None Specific Weight 5+8a/cm3 Solubility In Strong Acids

10.STABILITY AND REACTIVITY

Stability Stable

Reactivity Strong acids and bases

11. TOXICOLOGICAL INFORMATION

This product is not toxic as it is; when in use; refer to items 3 and 8. Prolonged operation causes chronic effects to eyes, ears and respiratory tract.

12. ECOLOGICAL INFORMATION

Ferrous product; do not dispose of in the environment (scrap metal). When used in combination with furnes extractors, treat the ensuing powders according to the provisions in force.

13. CONSIDERATIONS ON DISPOSAL

Product ferrous scrap, disposal as such, raw material suitable for melting. Cardboard and/or plastic packaging; to be recycled according to provisions in force.

14. INFORMATION ON TRANSPORTATION

High-density product, not dangerous according to transport provisions that are in force

15. INFORMATION ON REGULATIONS

CE Classifications N.A. Risk Symbol N.A. Risk Phrases N.A.

15. FURTHER INFORMATION

WWS Weldability requires that all customers read this product card carefully so as to be informed about the risks implied in the use of the product.

This card has been drawn up in consideration of the directions contained in the information cards on welding fumes, published by the International Institute of Welding (IIW). Possible national and local provisions are enforceable. The values, which are shown in this document, refer to security, so they are not warranted for product's technical characteristics. They are based on the best present knowledge.