

Tungsten Electrodes

(ThO₂, La₂O₃, Pure, CeO₂, ZrO₂) for TIG Welding



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Specification According to ISO 6848

Designation	Composition, Oxide Additive	Impurities total ≤ 0.10% Tungsten	Identification Color
WT20	ThO ₂ : 1.70 – 2.20%	Balance	Red
WL15	La ₂ O ₃ : 1.30 – 1.70%	Balance	Gold
WC20	CeO ₂ : 1.80 – 2.20%	Balance	Gray
WZ8	ZrO ₂ : 0.70 – 0.90%	Balance	White
WL10	La ₂ O ₃ : 0.90 – 1.20%	Balance	Black
WL20	La ₂ O ₃ : 1.80 – 2.20%	Balance	Sky-blue
WP	-----	≥ 99.95%	Green
WT10	ThO ₂ : 0.80 – 1.20%	Balance	Yellow
WZ3	ZrO ₂ : 0.15 – 0.50%	Balance	Brown
WY20	YtO ₂ : 1.80 – 2.20%	Balance	Blue

Specification According to AWS A5.12

Designation	Composition, Oxide Additive	Impurities total ≤ 0.10% Tungsten	Identification Color
EWTh – 2	ThO ₂ : 1.70 – 2.20%	≥ 97.30%	Red
EWLa – 1.5	La ₂ O ₃ : 1.30 – 1.70%	≥ 97.80%	Gold
EWP	-----	≥ 99.95%	Green
EWCe – 2	CeO ₂ : 1.80 – 2.20%	≥ 97.30%	Orange
EWLa – 1	La ₂ O ₃ : 0.80 – 1.20%	≥ 98.30%	Black
EWLa – 2	La ₂ O ₃ : 1.80 – 2.20%	≥ 97.30%	Sky-blue
EWZr – 1	ZrO ₂ : 0.15 – 0.40%	≥ 99.10%	Brown
EWTh – 1	ThO ₂ : 0.80 – 1.20%	≥ 98.30%	Yellow

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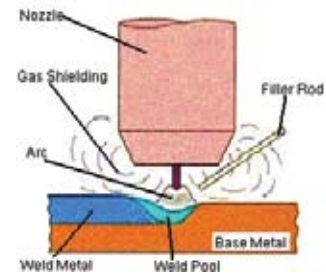
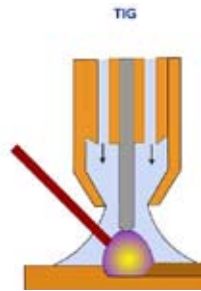
99 MOO 6 NAKORNIN RD., BANGKHUNKONG,
BANGKRUAY, NONTHABURI 11130

Tel : +66 2423 9229, +66 2423 9339

Fax : +66 2432 4555-57

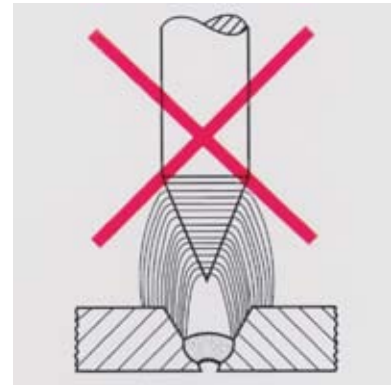
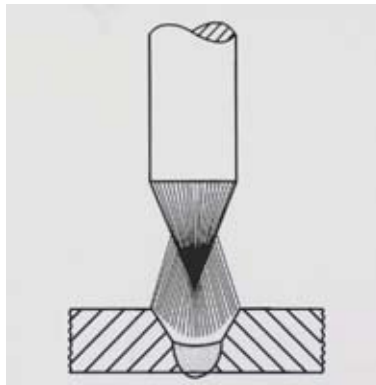
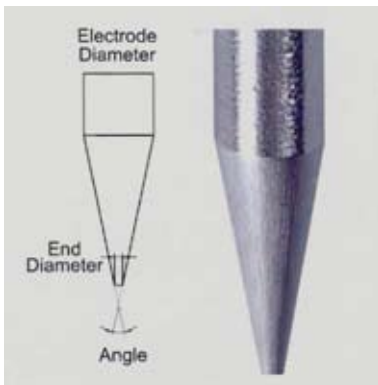
Specification According to JIS Z 3233

Designation	Composition, Oxide Additive	Impurities total $\leq 0.10\%$ Tungsten	Identification Color
YWTh – 2	ThO ₂ : 1.70 – 2.20%	Balance	Red
YWLa – 2	La ₂ O ₃ : 1.80 – 2.20%	Balance	Yellow-green
YWLa – 1	La ₂ O ₃ : 0.90 – 1.20%	Balance	Black
YWCe – 2	Ce ₂ O ₃ : 1.80 – 2.20%	Balance	Gray
YWP	-----	99.95%	Green
YWTh – 1	ThO ₂ : 0.80 – 1.20%	Balance	Yellow



Typical Size	Diameter 1.0 / 1.6 / 2.0 / 2.4 / 3.0 / 3.2 / 4.0 / 4.8 / 6.4 / 8.0 / 10.0 (mm)
Diameter Tolerance	± 0.05 mm for diameter ≤ 2.5 mm, ± 0.10 mm for diameter > 2.5 mm
Length Tolerance	175 ± 1.0 mm
Packing	100 pcs. / Bundle for 1.0 – 2.4 mm (50 pcs. For 3.0 – 4.0 mm, 25 pcs. For 4.8 – 6.4 mm) with sealed plastic bag. Or 10 pcs. / Plastic box for 1.0 – 4.0 mm (5 pcs. / plastic box for 4.8 – 6.4 mm).

Pre – Sharpened Tungsten Electrodes



SAVE TIME-BETTER QUALITY

The tips of the tungsten electrodes are grinded into a taper. They mainly have the following characters :

- Easy to use, no need extra processing
- Easy to start arc in short time
- Improves tungsten life and arc stability
- Arc of longitudinal grinding is more concentrated than longitudinal grinding, welding performance is better