WS2® WITSTAR® The best TIG-electrode in the world?





Wolfram Industrie
TUNGSTEN TECHNOLOGY
Germany

This is our WS2® WITSTAR®

- absolutely reliable arc-striking
- low burn-off rate
- highest quality of arc
- 35% less power consumption, with optimized equipment
- 40% prolonged service life
- 50% less set-up costs
- **50%** less gas consumption with our WS2® WITSTAR®, in combination with the right accessories
- 100% reproducible results
- free of radioactivity
- environmentally friendly due to significantly lower material consumption and, therefore, also resource-saving
- On the market you will hardly find an electrode of this quality.
 Only our "Made in Germany" quality shows such a homogeneous structure that a reproducibility of the work piece is guaranteed.
 A reduced burn-off rate and an extremely high ignition capability will additionally convince you.
- If this first-class electrode is even combined with the competence of an expert, the correct inert gas and accessories, not only the top result will convince you, but also the **long-term savings in energy, consumables and time.**
- Hard to believe, but true. Our WS2® WITSTAR® can be used for all materials.
- Our **WS2**[®] **WITSTAR**[®] is the result of **100 years of experience** in working with tungsten.

Our recommendation

Recommendation for WS2® WITSTAR®, current and gas for different materials

Materials	Direct Current DC		Alternating Current AC		He	Filler Material acc. to DIN	
	+ Pole	- Pole					
Unalloyed and alloyed steels						8559, 8575, 8556	
				•1			
Copper and copper alloys					•	1733	
Nickel and nickel alloys				•	•	1736	
Aluminium and aluminium alloys	(•)			(•)	(•)	1732	
					•		
					•		
Magnesium and magnesium alloys	(•)			(•)	(•)		
			•	•	•		
Titanium, titanium alloys, zirconium,							
tantalum, molybdenum, tungsten							

(ullet) only in case of thin walls $ullet^1$ argon or argon with low hydrogen fractions

Recommended amperage depending on the electrode diameter of WS2® WITSTAR®

Direct Cu	Alternating Current, A		
electrode negative (-)	electrode positive (+)	,	
tungsten with oxide additives	tungsten with oxide additives	tungsten with oxide additives	
10 to 75	no indication	15 to 70	
60 to 150	10 to 20	60 to 125	
100 to 200	15 to 25	85 to 160	
150 to 250	15 to 30	120 to 210	
225 to 330	20 to 35	150 to 250	
350 to 480	35 to 50	240 to 350	
	electrode negative (-) tungsten with oxide additives 10 to 75 60 to 150 100 to 200 150 to 250 225 to 330	tungsten with oxide additives tungsten with oxide additives 10 to 75 no indication 60 to 150 10 to 20 100 to 200 15 to 25 150 to 250 15 to 30 225 to 330 20 to 35	

Recommended amperage (DC) considering the tip angle of the WS2® WITSTAR®

Elektroden Ø in mm	15°	30°	45°	60°	75°
1,0	5 - 20 A	10 - 30 A	20 - 80 A	-	-
1,6	10 - 50 A	20 - 75 A	30 - 100 A	50 - 140 A	-
2,4	30 - 50 A	20 - 90 A	30 - 140 A	50 - 180 A	80 - 230 A
3,2	30 - 80 A	40 - 140 A	50 - 220 A	70 - 300 A	80 - 320 A
4,0	50 - 100 A	50 - 150 A	60 - 250 A	70 - 350 A	90 - 450 A