

Welding Cable

| Double Insulated | Extra Flexible

| Orange & Black Jacket

- 10 Sq. mm. to 400 Sq. mm • 600 Volts
- -30°C to +90°C

FEATURES.....

- Based on CENELEC HD 22-6 31, VDE 0282, IEC 245-6, IS 473, BS 638-4
- Outstanding toughness & durability
- High resistance to cuts, tears & abrasion
- Resistance to oil, solvents and chemicals
- Excellent ozone and weather resistant
- Fire Retardant

APPLICATIONS.....

- **Welding:** Designed for the secondary (high current) connection to automatic or hand - held metal arc welding electrodes. It is suitable for flexible use under rugged conditions, on assembly lines and conveyor systems, in machine tool and automatically operated line and spot welding machines.
- **Power:** Earthings / return leads, power feeds to electrolytic plating process, Busbar connection, transformers, generators, aircraft servicing equipments etc.

CONSTRUCTION.....

Conductor: High conductivity, bare annealed copper flexible conductor.

Sheath: Double Sheathed with a specially developed Thermoplastic Elastomeric (TPR/TPE)

Orange / Black Coloured

VOLATGE DROP.....

When total cable lengths in excess of 15 mtrs. Are involved, it may be necessary to use cables of larger cross section to ensure that the voltage drop is not excessive and welding currents is maintained at adequate levels.



An ISO 9001:2008 Company



CURRENT RATINGS.....

The maximum current ratings of flexible welding cables for different duty cycles are based on an ambient air temperature of 25°C and a maximum conductor temperature of 90°C. The percentages duty cycles given in the table are based on a cycle time of 5 minutes. The typical duty cycles for various welding processes and applications are as follows:


- Automobile Welding : up to 100%
- Semi-automatic welding : 30% to 85%
- Manual Welding : 0% to 60%
- Very intermittent or Occasional Welding : up to 20%


	Nominal insulation thickness	Nominal sheath thickness	Overall cable diameter		Max conductor resistance at 20°C	Current rating						Non Welding Application
			Lower limit	Upper limit		Welding applications						
						Duty Cycle						
						100%	85%	60%	30%	20%		
sqmm	mm	mm	mm	mm	Ω/km	amp	amp	amp	amp	amp	amp	
10	1.2	1.8	7.8	10	1.91	105	115	135	190	235	110	
16	1.2	1.9	9	11.5	1.21	135	145	175	245	302	138	
25	1.4	2	10	13	0.780	180	195	230	330	402	187	
35	1.4	2.2	11.5	14.5	0.554	225	245	290	410	503	233	
50	1.6	2.4	13	17	0.386	285	310	370	520	637	295	
70	1.6	2.6	15	19	0.272	355	385	460	650	794	372	
95	1.8	2.8	17.5	21.5	0.206	430	470	560	790	961	449	
120	1.8	3	19.5	24	0.161	500	540	650	910	1118	523	
150	2	3.2	21.5	26	0.129	580	620	740	1040	1297	608	
185	2.2	3.4	23	29	0.106	660	715	850	1200	1476	690	
240	2.4	3.5	27	32	0.0801	710	770	916	1296	1587	744	
300	2.6	3.6	30	35	0.0641	800	850	1035	1450	1790	840	
400	2.8	3.8	33	39	0.0486	925	1000	1195	1690	2070	970	

Ambient temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57


* Customisation is available upon request: Colour of Sleeve; Size of Cable; Printing

Cable Connectors

CAM-LOCK TYPE 	MODEL	RV-40HD	RV-40
	Welding Cable Size	Max. 95mm ²	Max. 70mm ²
	Weight per pair	530g	470g
	Connection	Double Oval-point Screw	Single Oval-point Screw

PIN TYPE 	MODEL	RV-70S
	Welding Cable Size	Max. 70mm ²
	Weight per pair	520g
	Connection	Double Screw

Other Accessories

CABLE LUG 	MODEL	RV-1020	RV-3040
	Welding Cable Size	For 50mm ² to 70mm ² Welding Cable	For 95mm ² to 120mm ² Welding Cable
	Stud Hole	12.6mm	13.5mm


CHIPPING HAMMER – RV-20





CYLINDER KEY – RV-SK




Electrode Holders


RV SERIES 	MODEL	RV-25	RV-30	RV-35	RV-50
	Current Capacity	250 – 350A	300 – 400A	350 – 450A	500 – 600A
	Electrode Capacity	Max- 3/16"	Max. 1/4"	Max. 1/4"	Max 3/8"
	Welding Cable Size	Max. 50mm ²	Max. 70mm ²	Max. 70mm ²	Max. 95mm ²
	Weight	450g	610g	690g	840g
	Length	215mm	248mm	248mm	290mm
	Overall Ball Screw	1	1	2	2
	Key Features	<ul style="list-style-type: none"> Fully insulated heavy duty fibreglass jaw insulators Fully insulated heavy duty fibreglass handle and upper lever Fully insulated strong spring ensures electrodes are held firmly 			


OT SERIES 	MODEL	RV-300OT	RV-400OT
	Current Capacity	300 – 400A	450 – 500A
	Electrode Capacity	Max. 5/32"	Max. 3/16"
	Welding Cable Size	Max. 50mm ²	Max. 70mm ²
	Weight	525g	650g
	Length	225mm	250mm
	Overall Ball Screw	1	2
	Key Features	<ul style="list-style-type: none"> Fully insulated heavy duty fibreglass jaw insulators Fully insulated heavy duty fibreglass handle and upper lever Fully insulated strong spring ensures electrodes are held firmly High copper alloy for maximum conductivity 	


TT SERIES 	MODEL	RV-400TT
	Current Capacity	Up to 400A
	Electrode Capacity	Max. 3/16"
	Welding Cable Size	Max. 50mm ²
	Weight	500g
	Length	220mm
	Key Features	<ul style="list-style-type: none"> Twist-grip type Fully insulated jaw for maximum safety Heavy duty fibreglass handle is with grooves for easy grip High copper alloy for maximum conductivity

E SERIES 	MODEL	RV-50E
	Current Capacity	Up to 500A
	Electrode Capacity	Max. 3/8"
	Welding Cable Size	Max. 70mm ²
	Weight	560g
	Length	254mm
	Overall Ball Screw	1
	Key Features	<ul style="list-style-type: none"> Fully insulated jaw for maximum safety Replaceable fibreglass jaw insulation for optimising holder life Handle is with grooves for easy grip

Earth Clamps

STANDARD SERIES 	MODEL	RV-3000	RV-5000
	Current Capacity	Up to 300A	Up to 500A
	Welding Cable Size	Max. 50mm ²	Max. 95mm ²
	Weight	480g	560g

MAGNETIC SERIES 	MODEL	RV-M50R	RV-M60R
	Current Capacity	250 – 300A	500 – 600A
	Welding Cable Size	Max. 35mm ²	Max. 95mm ²
	Main Body Alloy	Brass	Brass

ROTARY SERIES 	MODEL	RV-500R	RV-600R
	Current Capacity	400 – 500A	500 – 600A
	Welding Cable Size	Max. 70mm ²	Max. 95mm ²
	Main Body Alloy	Brass	Forged Brass


T-Connect



REVOLT RCT-40-Series of T-Connect is designed to provide welders with a safe, effective and reliable way of auxiliary output to power up Portable Electrode Ovens.

The Portable Electrode Ovens can now have consistent electrical current supply to ensure welding electrodes are heated up throughout the welding operations to meet stringent welding standards requirement.

The **Fully-Insulated T-Connect** will also ensure that the welders' as well as their co-workers' safety is not compromised.

T-Connect	MODEL	RCT-40S	RCT-40LT	RCT-40D	RCT-40N
	Capacity	Max. 500Amps	Max. 500Amps	Max. 500Amps	Max. 500Amps
	Weight	254g	Non-Standard Stock		
	Compatibility	Sanritsu Type	Lenco and Tweco Type	Dinse Type	Nakajima Type

Ceramic Backing Material

REVOLT ceramic backing materials are suitable for shipbuilding, marine facilities, plants and other steel structures and is widely used for one side welding technique such as CO₂ semiautomatic welding, submerged arc and automatic welding.

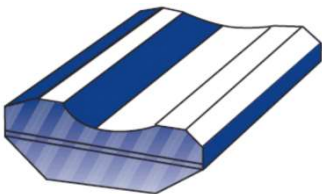
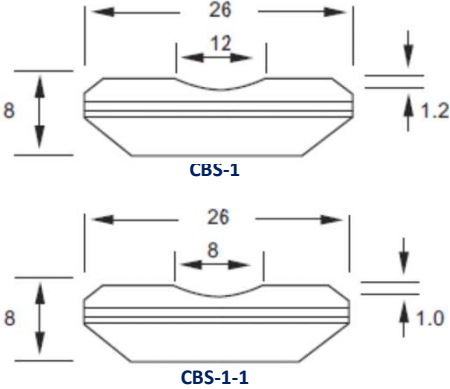
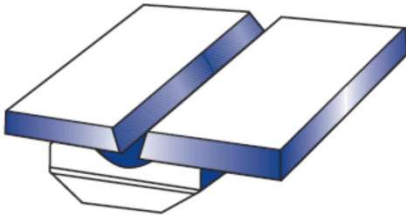
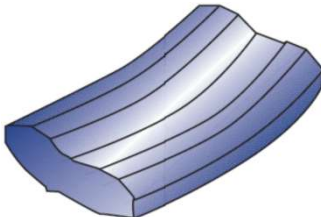
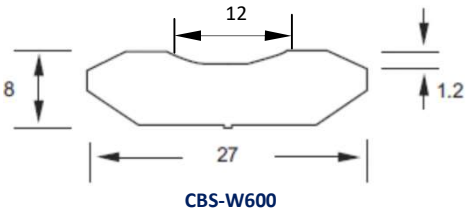
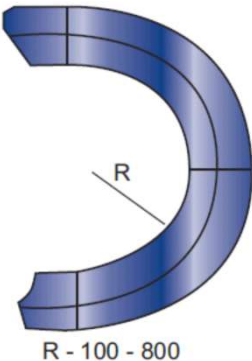
The application of ceramic backing omit the back gouging technique needed to attain sound weld and contributes greatly to enhancing productivity and cost reduction by realizing one side welding.

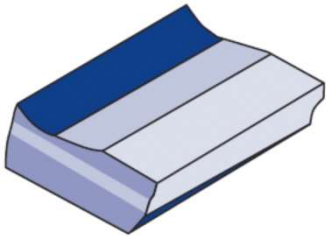
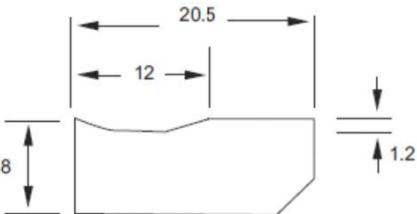
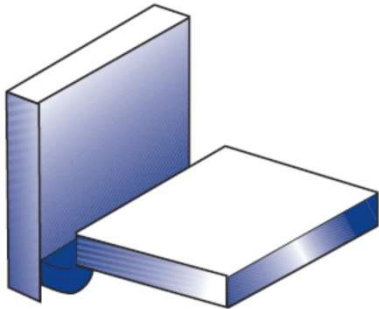
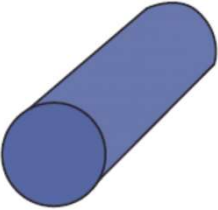
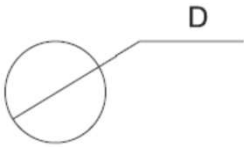
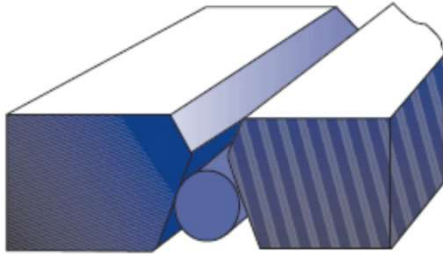
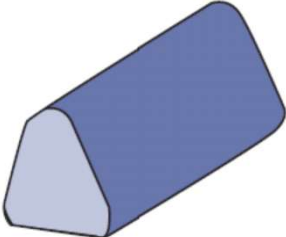
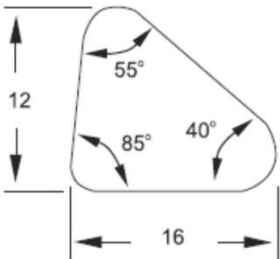
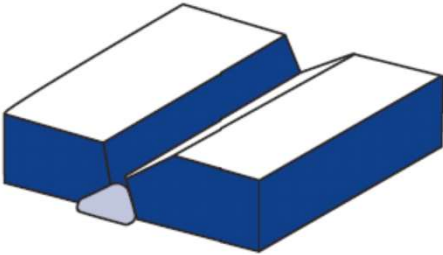
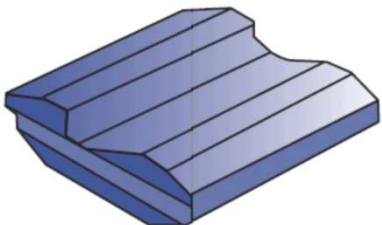
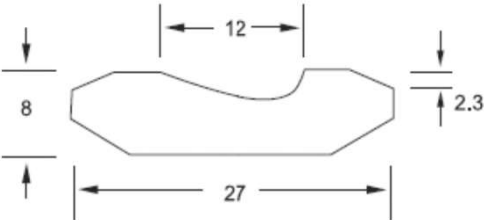
FEATURES

REVOLT ceramic products contain a well mix of natural inorganic substances such as kaolin, talc, alumina, magnesia, etc., and are heat-treated at high temperatures between 1,350°C to 1,400°C.

The result of this heat-treatment process is excellent shock resistance properties subject to rapid heating and cooling thermal cycle during welding (coefficient of thermal expansion is $1.85 - 2.5 \times 10^{-6}$ at 1,000°C).

REVOLT ceramic has excellent characteristics; it is water proof, anti-acid, anti-chemicals and anti-corrosion. Therefore, it causes no change or reaction to steel at the time of welding.

BACKING	DIMENSION	JOINT
 <p>Application: This backing is the CO₂ gas shielded one-side welding backing and is suitable for use with flux-cored wire. It has wide applications in shipbuilding, bridges, chemical industry, steel structure etc.</p>	 <p>CBS-1 Top view: 26 (total width), 12 (inner width), 8 (height). Side view: 1.2 (thickness). CBS-1-1 Top view: 26 (total width), 8 (inner width), 8 (height). Side view: 1.0 (thickness).</p>	
 <p>Application: This backing is specially designed for handholes and manholes welding.</p>	 <p>CBS-W600 Top view: 12 (inner width), 27 (total width), 8 (height). Side view: 1.2 (thickness).</p>	 <p>R - 100 - 800</p>

BACKING	DIMENSION	JOINT
 <p>Application: This welding backing is used for right angle joint of steel structure.</p>	 <p>CBS-2T</p>	
 <p>Application: This welding backing is used with all one-side processes, especially for those which do not demand back bead cleaning.</p>	 <p>D – 6, 8, 10, 12 CBS-6</p>	
 <p>Application: This welding backing is used for CO₂ one-side welding of different angles (45°, 60°, 90°) joints.</p>	 <p>CBS-6A</p>	
 <p>Application: This backing is used for right angle joint of steel structure.</p>	 <p>CBS-1H</p>	

Gouging Carbon Electrode - Jointed



FEATURES

- Made from specially formulated mixture of Graphite and Pure Carbon.
- Copper-clad.
- Female Socket with Matching Male Tip.

BENEFITS

- Continuous Feed of Electrode for Auto-Gouging Systems – High efficiency.
- Minimised Wastage – Optimising Profitability.

CARE

- Store Carbon Electrodes in dry condition.
- If Carbon Electrodes are left open in moist conditions, be sure to bake electrodes up to 300°F for 10 hours before using.

Item Code	Diameter		Length		Current Amp	Packaging	
	mm	inch	mm	inch		Inner Box	Outer Box
RV-G0814-J	8.0	5/16	355	14	450 ~ 500	50	250
RV-G0817-J	8.0	5/16	430	17	450 ~ 500	50	250
RV-G1014-J	10.0	3/8	355	14	600 ~ 650	30	300
RV-G1017-J	10.0	3/8	430	17	600 ~ 650	30	300
RV-G1314-J	13.0	1/2	355	14	800 ~ 900	30	300
RV-G1317-J	13.0	1/2	430	17	800 ~ 900	30	300
RV-G1614-J	16.0	5/8	356	14	1000 ~ 1100	20	200
RV-G1617-J	16.0	5/8	430	17	1000 ~ 1100	20	200

* Other sizes available upon request.

HD Gouging Carbon



FEATURES

- Specially formulated with composite materials of Graphite and Carbon.
- Coated with high-purity Copper to provide optimum electrical conductivity.
- Pointed, cylindrical shape.
- Uniform Diameter.

BENEFITS

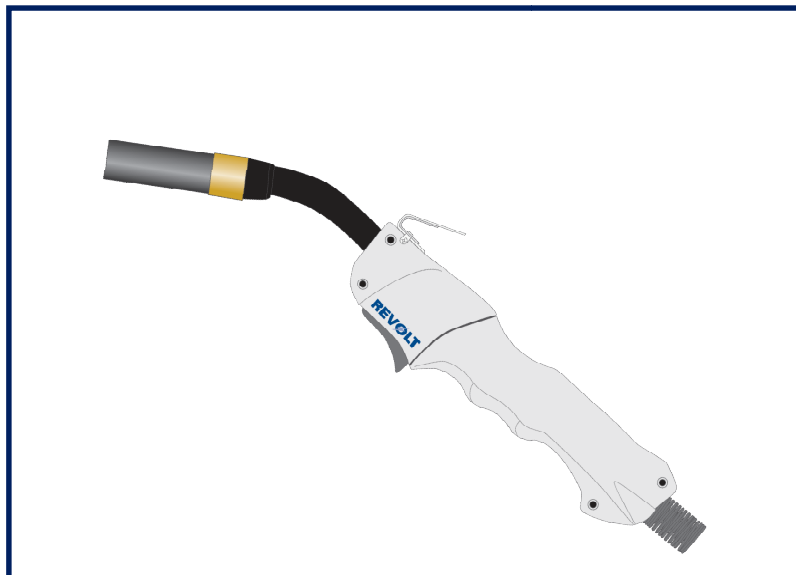
- **Heavy Duty** and **Superior** Metal Removal Rate – High efficiency.
- Excellent Arc Stability – Clean Cuts.
- Excellent resistance to breakage and heat – Cool operation.
- Convenient Packing Sizes for easy handling and storage.

CARE

- Store Carbon Electrodes in dry condition.
- If Carbon Electrodes are left open in moist conditions, be sure to bake electrodes up to 300°F for 10 hours before using.

ITEM CODE	DIAMETER		LENGTH		CURRENT Amp	PACKING SIZE			WEIGHT Kg Per Pallet
	mm	inch	mm	inch		Per Box	Per Carton	Per Pallet	
2370000040	4.0	5/32	305	12	90 to 150	200	2000	90000	915
2370000048	4.8	3/16	305	12	200 to 250	100	1000	45000	665
2370000064	6.4	1/4	305	12	300 to 400	100	1000	45000	960
2370000080	8.0	5/16	305	12	350 to 450	50	500	22500	725
2370000095	9.5	3/8	305	12	450 to 600	50	500	22500	970
2370000127	12.7	1/2	356	14	600 to 1000	25	250	9000	780

MIG / MAG Torch



A robust torch that is ergonomically designed and lightweight.

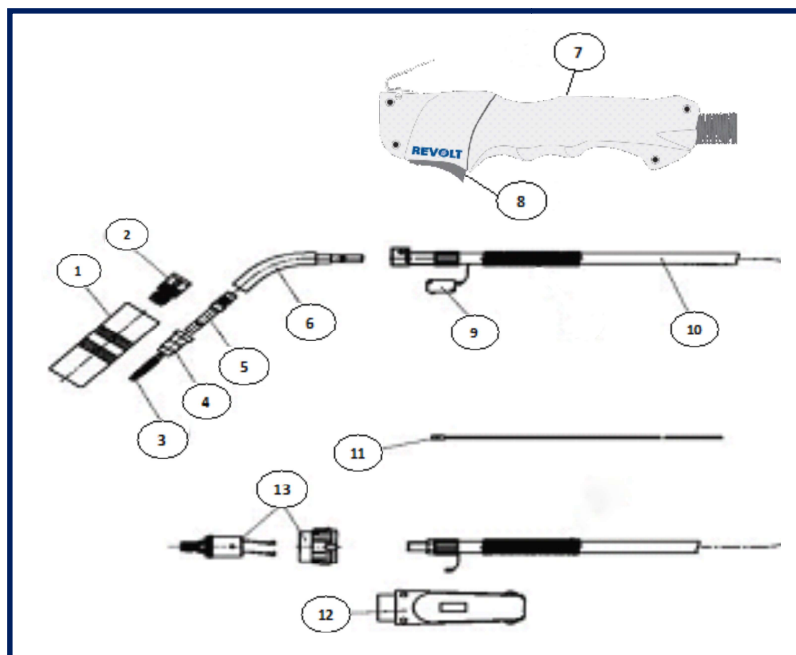
The **Revolt MIG/MAG** torch is designed and manufactured to withstand heavy usage in harsh welding conditions.

The specially formulated torch cable has a strong “memory” feature that allows it to withstand higher heat and stretching, and still retain close to its original shape after long duration of use. This allows consistent transfer of welding currents

The Revolt anti-spatter nozzle is specially formulated to withstand spatter during welding.

The **Revolt MIG/MAG** torch can be equipped to major brands of wire feeders. We are also able to customize for special torch applications.

Description	Model
MIG / MAG Torch 350amps, 3.0m	HD35030
MIG / MAG Torch 350amps, 4.5m	HD35045
MIG / MAG Torch 350amps, 6.0m	HD35060



Item	Description	Part Number
1	Nozzle	R35-031
	Spatter Resistant Nozzle	R35-035
2	Insulator	R35-011
3	CuCrZr Contact Tip 1.2mm	R35-001
	Heavy Duty Contact Tip 1.2mm	R35-008
4	Orifice	R35-051
5	Tip Body	R35-021
6	Torch Body	R35-061
7	Handle with Screw	R35-062
8	Trigger	R35-063
9	Micro Switch	R35-066
10	Cable 3.0m	R35-111
	Cable 4.5m	R35-112
	Cable 6.0m	R35-113
11	Liner 3.0m x Dia 1.2mm	R35-054
	Liner 4.5m x Dia 1.2mm	R35-052
	Liner 6.0m x Dia 1.2mm	R35-053
12	End Cover	R35-104
13	OTC Connect	RC-OTC
	Euro Connect	RC-Euro
	Tweco Connect	RC-Tweco
	Miller Connect	RC-Miller
	Panasonic Connect	RC-Panasonic
	Lincoln	RC-Lincoln

Tungsten Electrodes



COMMON SIZES

Diameter: 1.6mm, 2.4mm

Length: 150mm, 175mm

Type	Description	Characteristics	Material Composition (%)			Colour Code
			Oxide	Other Contents	Tungsten	
W	PURE Tungsten Electrode	Least expensive among all tungsten electrodes. Used in AC welding of aluminium and magnesium alloys.	-	<0.2	99.8	GREEN
WT20	2% THORIATED Tungsten Electrode	Most common, though slightly radioactive. Used for DC Welding of carbon and stainless steels, nickel alloys and titanium. Good tolerance for slight overload of welding current.	ThO ₂ 1.7 - 2.2	<0.2	Remaining	RED
WL10	1% LANTHANATED Tungsten Electrode	Closest non-radioactive alternative to 2% Thoriated Tungsten Electrode. Primarily used for DC Welding, but can also be used for AC Welding.	La ₂ O ₃ 0.8 - 1.2	<0.2	Remaining	BLACK
WL20	2% LANTHANATED Tungsten Electrode		La ₂ O ₃ 1.8 - 2.2	<0.2	Remaining	BLUE
WC20	2% CERIATED Tungsten Electrode	Non-radioactive. Good for low amperage DC welding as it has good arc start even at low amperage. Requires lower current to maintain the arc. Primarily used for welding of orbital tube, pipe, micro parts and short welding cycles.	CeO ₂ 1.8 - 2.2	<0.2	Remaining	GREY
WZ3	0.3% ZIRCONIATED Tungsten Electrode	Good performance in AC Welding and produces a more stable arc than Pure Tungsten Electrode. Performs well in high current AC welding and has a good resistance against contamination in AC welding. Primarily used for AC welding of aluminium and magnesium alloys.	ZrO ₂ 0.2 - 0.4	<0.2	Remaining	BROWN
WZ8	0.8% ZIRCONIATED Tungsten Electrode		ZrO ₂ 0.2 - 0.4	<0.2	Remaining	WHITE