
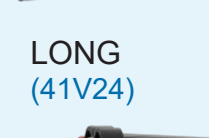

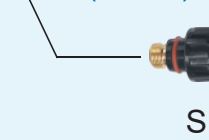
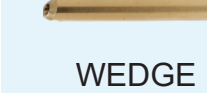


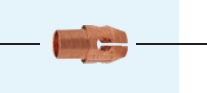


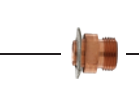
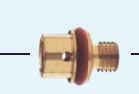


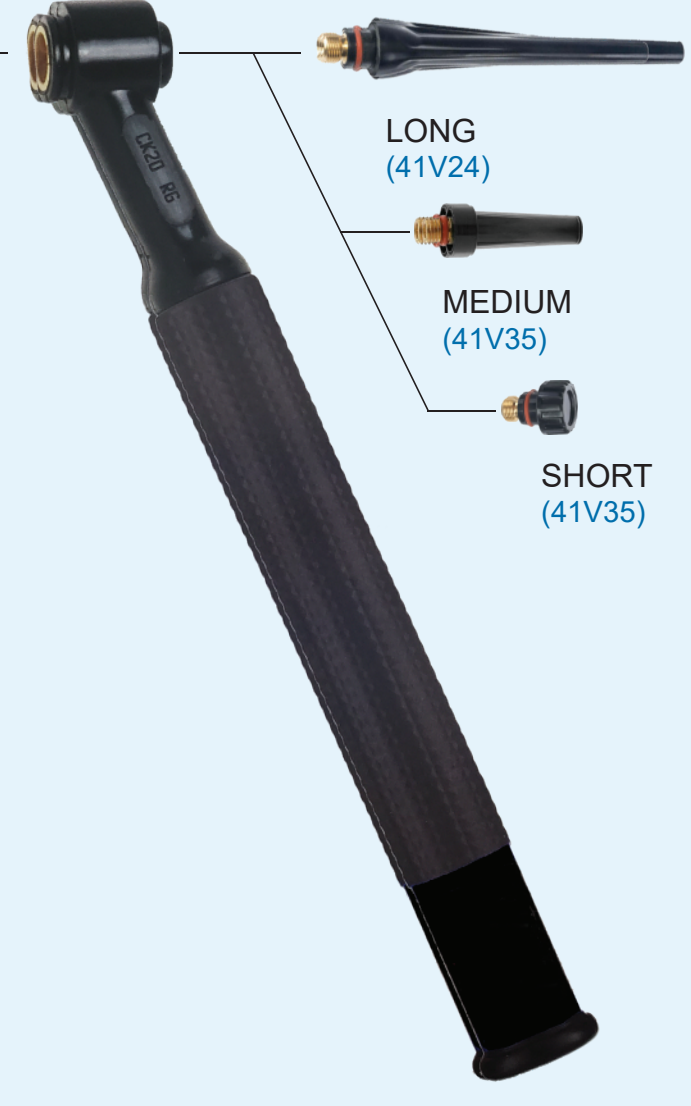
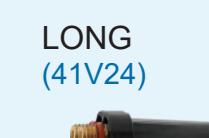
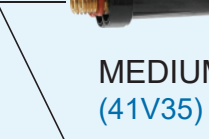
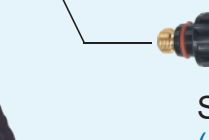

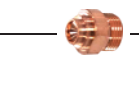


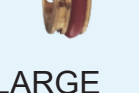




# WP 9, 20, 24 TIG TORCH CONSUMABLES


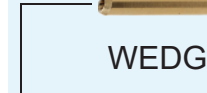
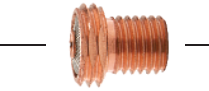


## TYPE 1

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 13N08   13N11 13N09   13N12 13N10   13N13	<b>STANDARD</b> 13N25   13N28 13N26   13N29 13N27	<b>STANDARD</b> 13N20 13N21 13N22 13N23 13N24	STANDARD		<b>LONG (41V24)</b>  <b>MEDIUM (41V35)</b>  <b>SHORT (41V35)</b> 
<b>CERAMIC</b> 13N14   13N17 13N15   13N18 13N16   13N19	<b>WEDGE</b>  <b>REVERSE</b> 				
<b>ALUMINA-LONG</b> A796F70   A796F72 A796F71   A796F73					
<b>CERAMIC-LONG</b> 796F70   796F72 796F71   796F73					
<b>STANDARD</b> 13N08SC   13N10SC 13N09SC					
<b>ALUMINA-GAS LENS</b> 53N58   53N60   53N61S 53N59   53N61	<b>GAS LENS</b> 45V41   45V44 45V42   45V45 45V43	<b>STANDARD</b> SEE ABOVE <b>WEDGE</b> SEE ABOVE <b>REVERSE</b> SEE ABOVE	STANDARD		
<b>GAS LENS</b> 53N58SC   53N60SC 53N59SC					
<b>ALUMINA-LARGE DIAMETER</b> 57N75   53N88   53N87 57N74   53N89	<b>LARGE DIAMETER</b> 45V0204S   45V64S 45V116S   995795S	<b>LARGE DIAMETER</b> 13N20L 13N21L 13N22L 13N23L 13N24L	LARGE DIAMETER		
<b>LARGE DIAMETER</b> 57N75SC   53N88SC 57N74SC   53N87SC					
<b>ALUMINA</b> A53N24   A53N27	<b>SHORT</b> 	<b>REVERSE</b> SEE ABOVE 	STANDARD 		
<b>CERAMIC</b> 53N24   53N27					
<b>CERAMIC-LONG</b> 53N28   53N26					

## TYPE 2

CUP	ADAPTER	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 	<b>WITH SCREEN</b> 	<b>STANDARD</b> 	<b>WEDGE</b> 	<b>STANDARD</b> 		<b>LONG (41V24)</b>  <b>MEDIUM (41V35)</b>  <b>SHORT (41V35)</b> 
<b>CLEAR</b> 	<b>WITHOUT SCREEN</b> 					
<b>CLEAR</b> 	<b>LARGE DIAMETER WITH SCREEN</b> 	<b>LARGE DIAMETER</b> 	<b>WEDGE</b> 	<b>LARGE DIAMETER</b> 		

## TYPE 3

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH
<b>CERAMIC</b> 53N24   53N27 53N25	<b>STANDARD</b> 53N17   53N19 53N18   24CB332	<b>STANDARD</b> 53N15   53N14 53N16   24C332	STANDARD	
<b>ALUMINA</b> A53N23   A53N25 A53N24   A53N27				
<b>CERAMIC-LONG</b> 53N28   53N26		<b>WEDGE</b> 		
<b>ALUMINA-GAS LENS</b> 53N58   53N60   53N61S 53N59   53N61	<b>GAS LENS</b> 45V41   45V44 45V42   45V45 45V43	<b>GAS LENS</b> 53N62   53N64 53N63   24GLC332	GAS LENS	
<b>CERAMIC</b> 53N24   53N27	<b>GAS LENS</b> 	<b>GAS LENS</b> 24C332 	GAS LENS 	
<b>ALUMINA</b> A53N23   A53N25 A53N24   A53N27				
<b>CERAMIC-LONG</b> 53N28   53N26				

## TUNGSTEN ELECTRODES

TIG welding electrodes usually contain small quantities of metallic oxides, which can offer the following benefits:

- Facilitate arc starting
- Increase arc stability
- Improve current carrying capacity of the electrode
- Reduce the risk of weld contamination
- Increase electrode life

### 2% THORIATED TUNGSTEN - RED

Best stability at medium currents, good arc starts, medium tendency to spit, medium erosion rate.

CLASSIFICATIONS	SIZE
EWTH-2	.020 x 7" (0.5mm x 175mm)
AWS A5.12-2009	.040 x 7" (1.0mm x 175mm)
WT20	1/16 x 7" (1.6mm x 175mm)
ISO 6848	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

### .8% ZIRCONIATED TUNGSTEN - WHITE

Balls well, handles higher current with less spitting, better arc starts and arc stability than pure tungsten

CLASSIFICATIONS	SIZE
EWZr-8	.020 x 7" (0.5mm x 175mm)
AWS A5.12M-2009	.040 x 7" (1.0mm x 175mm)
WZ8	1/16 x 7" (1.6mm x 175mm)
ISO 6848	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

### 1.5% LANTHANATED TUNGSTEN - GOLD

Lowest erosion rate, wide current range, no spitting, best DC arc starts and stability

CLASSIFICATIONS	SIZE
EWLA-1.5	.020 x 7" (0.5mm x 175mm)
AWS A5.12-2009	.040 x 7" (1.0mm x 175mm)
WL15	1/16 x 7" (1.6mm x 175mm)
ISO 6848	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

### 2% CERIATED TUNGSTEN - GREY

Low erosion rate, wide current range, AC or DC, no spitting, consistent arc starts, good stability

CLASSIFICATIONS	SIZE
EWCE-2	.020 x 7" (0.5mm x 175mm)
AWS A5.12-2009	.040 x 7" (1.0mm x 175mm)
WC20	1/16 x 7" (1.6mm x 175mm)
ISO 6848	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

### PURE TUNGSTEN - GREEN

Balls easily, low cost, tends to spit at higher currents, used for non-critical welds only

CLASSIFICATIONS	SIZE
EWTP	.020 x 7" (0.5mm x 175mm)
AWS A5.12-2009	.040 x 7" (1.0mm x 175mm)
WP	1/16 x 7" (1.6mm x 175mm)
ISO 6848	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

### 1.5% LANTHANUM, .8% YTTRIUM OXIDES .8% ZIRCONIUM - CHARTREUSE

Very stable tip geometry, runs cooler than 2% Thoriated with longer life, low to medium amperage range. Very best low amperage starts

CLASSIFICATIONS	SIZE
AWS A5.12	.020 x 7" (0.5mm x 175mm)
EWG	.040 x 7" (1.0mm x 175mm)
ISO 6848	1/16 x 7" (1.6mm x 175mm)
	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

### RARE EARTH 4 (RE4) TUNGSTEN - PURPLE

Suitable for both DC and AC TIG welding. It maintains tip shape, reliable arc striking, low burn off rate, long service life

CLASSIFICATIONS	SIZE
AWS A5.12	.020 x 7" (0.5mm x 175mm)
EWG	.040 x 7" (1.0mm x 175mm)
ISO 6848	1/16 x 7" (1.6mm x 175mm)
	3/32 x 7" (2.4mm x 175mm)
	1/8 x 7" (3.2mm x 175mm)
	5/32 x 7" (4.0mm x 175mm)

