

SPECIALTY – SUPERCool SERIES

# AE-300

**TIGZONE®**  
TORCHES



60  
%DC



WØ  
0,5  
–  
4,0  
mm

300  
A DC  
-----  
250  
A AC

## TIGZONE AE-300 – aircooled TIG-Torch

### **The Torch**

Top performing air-cooled torch for heavy-duty applications. Ideal torch for rugged fieldwork welding.

### **The End-Connector**

Available for all standard welding machines

### **The Handle**

Choose between the ERGO or HD handle series

### **The Cable**

Super-Flex® cables and Super-Soft® leather remains flexible and ease to handle with a significant cable lifetime. A 2PC torch cable makes this an easy-to-repair and heavy-duty tig torch

### **DIN Norm**

CE EN 60 974-7

## TIGZONE AE-300 – Torch / Back End Consumables



### Torch Front Group

|    |                                 |        |
|----|---------------------------------|--------|
| 1  | Torch Body incl. insulator (15) |        |
| .1 | AE-300                          | AE300  |
| .2 | AE-300F                         | AE300F |

|    |         |        |
|----|---------|--------|
| 2  | Backcap |        |
| .1 | short   | 57Y04  |
| .2 | medium  | 57Y02M |
| .3 | long    | 57Y02  |

### Cable Group

|          |                         |                |
|----------|-------------------------|----------------|
| 4        | Cable cover<br>leather  | TZ-1028R-TIG   |
| 5        | Cable cover<br>25x1.5mm | RS-25          |
| 6        | Power Cable             |                |
| 4m       |                         | AE300-4PC-*    |
| 4m SF    |                         | AE300-4PC-SF-* |
| 8m       |                         | AE300-8PC-*    |
| 8m SF    |                         | AE300-8PC-SF-* |
| 7        | Control                 | MOQ 100m       |
| Standard | (3x0.5mm)               | LIYY-3x0,5     |

\* Please specify machine connections e.g. 1/4, 3/8 etc.

### i H-200R Handle

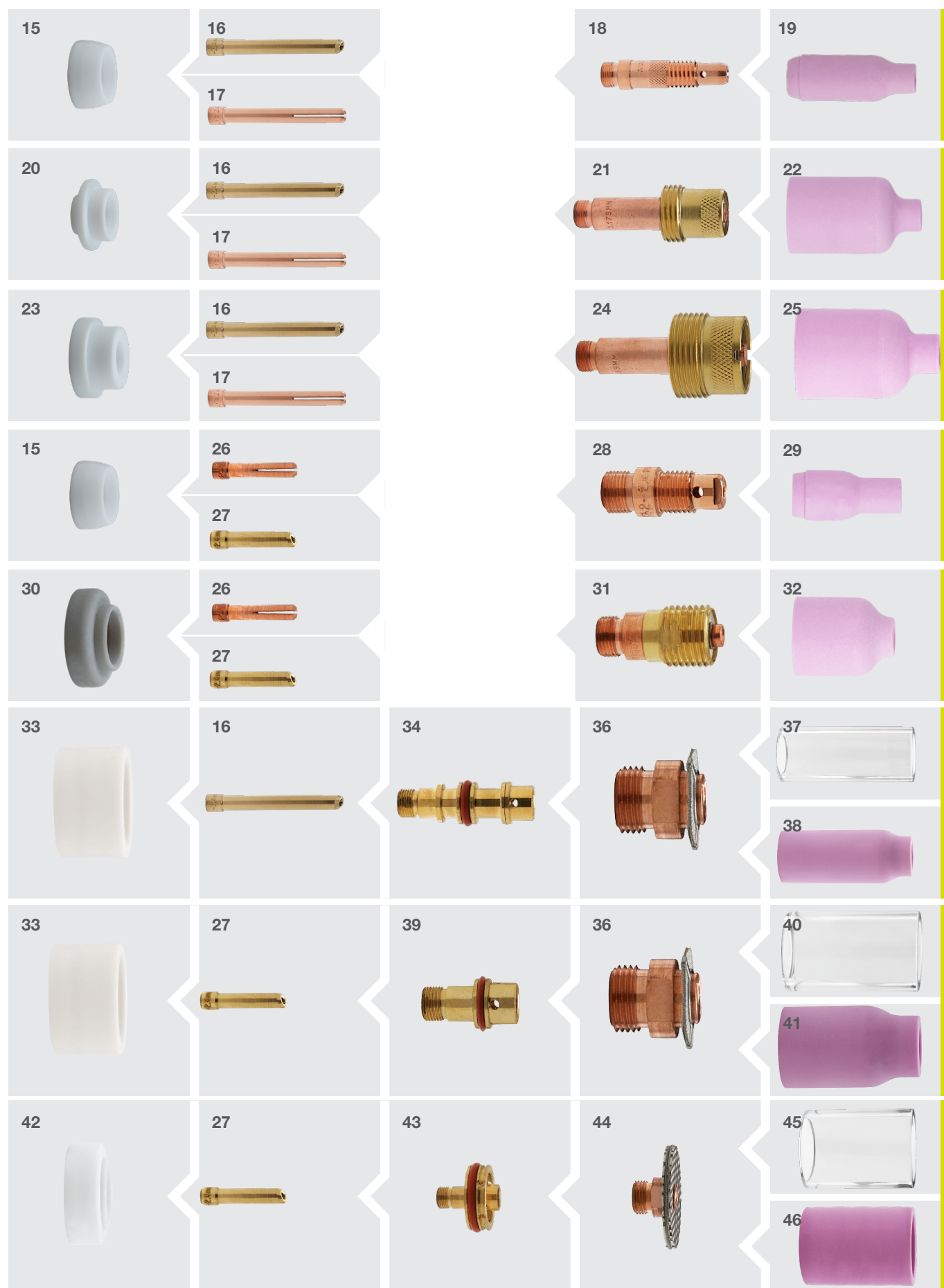
Fits AE-300 and AE-300F bodies.  
Ordering Number: **H-200R**



### i Handles

More information regarding our **Handles** Group on page 2.

## TIGZONE AE-300 – Front End Consumables Overview



## TIGZONE AE-300 – Front End Consumables

|                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  |  |  |  |  |  |  |
| <b>Size</b>      | <b>16</b><br>Collet Wedge                                                         | <b>17</b><br>Collet                                                               | <b>18</b><br>Collet Body                                                          | <b>21</b><br>Gas Lens                                                             | <b>24</b><br>Gas Lens                                                              | <b>15</b><br>Insulator<br>Standard <b>18CG</b>                                      |
| Ø .020" (0.5 mm) | -                                                                                 | <b>10N21</b>                                                                      | <b>10N29</b>                                                                      | <b>45V29</b>                                                                      | <b>45V0204</b>                                                                     |                                                                                     |
| Ø .040" (1.0 mm) | <b>3C040GS</b>                                                                    | <b>10N22</b>                                                                      | <b>10N30</b>                                                                      | <b>45V24</b>                                                                      |                                                                                    |  |
| Ø 1/16" (1.6 mm) | <b>3C116GS</b>                                                                    | <b>10N23</b>                                                                      | <b>10N31</b>                                                                      | <b>45V25</b>                                                                      | <b>45V116</b>                                                                      | <b>20</b><br>Insulator<br>Gas Lens <b>54N01</b>                                     |
| Ø 3/32" (2.4 mm) | <b>3C332GS</b>                                                                    | <b>10N24</b>                                                                      | <b>10N32</b>                                                                      | <b>45V26</b>                                                                      | <b>45V64</b>                                                                       |                                                                                     |
| Ø 1/8" (3.2 mm)  | <b>3C418GS</b>                                                                    | <b>10N25</b>                                                                      | <b>10N28</b>                                                                      | <b>45V27</b>                                                                      | <b>995795</b>                                                                      |  |
| Ø 5/32" (4.0 mm) | <b>3C532GS</b>                                                                    | <b>54N20</b>                                                                      | <b>406488</b>                                                                     | <b>45V28</b>                                                                      | <b>45V63</b>                                                                       | <b>23</b><br>Insulator<br>LD Gas Lens <b>54N63</b>                                  |

|                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |  |  |  |  |  |  |
| <b>Size</b>    | <b>19</b><br>Cup<br>(46,83 mm)                                                    | <b>19</b><br>Super Cup<br>(Sil.Nitride)                                           | <b>19</b><br>Cup L<br>(76 mm)                                                     | <b>22</b><br>Cup<br>(41,27 mm)                                                    | <b>22</b><br>Super Cup<br>(Sil.Nitride)                                            | <b>22</b><br>Cup L<br>(76 mm)                                                       |
| #3 Ø 4.75 mm   | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |
| #4 Ø 6.35 mm   | <b>10N50</b>                                                                      | <b>10N50SC</b>                                                                    | <b>10N50L</b>                                                                     | <b>54N18</b>                                                                      | <b>54N18SC</b>                                                                     | <b>54N18L</b>                                                                       |
| #5 Ø 7.93 mm   | <b>10N49</b>                                                                      | <b>10N49SC</b>                                                                    | <b>10N49L</b>                                                                     | <b>54N17</b>                                                                      | <b>54N17SC</b>                                                                     | <b>54N17L</b>                                                                       |
| #6 Ø 9.52 mm   | <b>10N48</b>                                                                      | <b>10N48SC</b>                                                                    | <b>10N48L</b>                                                                     | <b>54N16</b>                                                                      | <b>54N16SC</b>                                                                     | <b>54N16L</b>                                                                       |
| #7 Ø 11.11 mm  | <b>10N47</b>                                                                      | <b>10N47SC</b>                                                                    | <b>10N47L</b>                                                                     | <b>54N15</b>                                                                      | <b>54N15SC</b>                                                                     | <b>54N15L</b>                                                                       |
| #8 Ø 12.70 mm  | <b>10N46</b>                                                                      | <b>10N46SC</b>                                                                    | -                                                                                 | <b>54N14</b>                                                                      | <b>54N14SC</b>                                                                     | <b>54N14L</b>                                                                       |
| #10 Ø 15.87 mm | <b>10N45</b>                                                                      | <b>10N45SC</b>                                                                    | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |
| #11 Ø 17.50 mm | -                                                                                 | -                                                                                 | -                                                                                 | <b>54N19L</b>                                                                     | -                                                                                  | -                                                                                   |
| #12 Ø 19.05 mm | <b>10N44</b>                                                                      | <b>10N44SC</b>                                                                    | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |

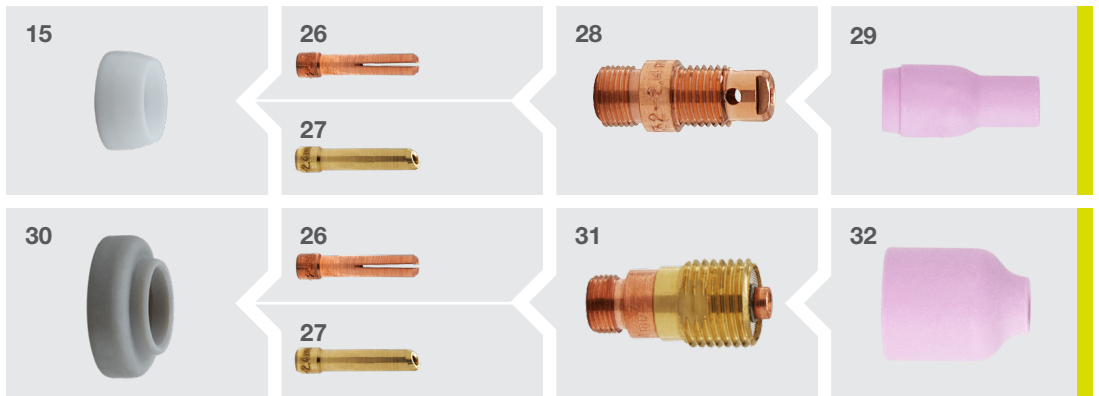
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|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                |  |  |  |  |  |
| <b>Size</b>    | <b>25</b><br>Cup<br>(47,62 mm)                                                      | <b>25</b><br>Super Cup<br>(Sil.Nitride)                                             | <b>25</b><br>Cup L<br>(70 mm)                                                       | <b>25</b><br>Cup XL<br>(84 mm)                                                      | <b>25</b><br>Cup XXL<br>(122 mm)                                                     |
| #3 Ø 4.75 mm   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                    |
| #4 Ø 6.35 mm   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                    |
| #5 Ø 7.93 mm   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                    |
| #6 Ø 9.52 mm   | <b>57N75</b>                                                                        | <b>57N75SC</b>                                                                      | <b>57N75L</b>                                                                       | <b>57N75XL</b>                                                                      | <b>57N75XXL</b>                                                                      |
| #7 Ø 11.11 mm  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                    |
| #8 Ø 12.70 mm  | <b>57N74</b>                                                                        | <b>57N74SC</b>                                                                      | <b>57N74L</b>                                                                       | <b>57N74XL</b>                                                                      | <b>57N74XXL</b>                                                                      |
| #10 Ø 15.87 mm | <b>53N88</b>                                                                        | <b>53N88SC</b>                                                                      | <b>53N88L</b>                                                                       | <b>53N88XL</b>                                                                      | <b>53N88XXL</b>                                                                      |
| #12 Ø 19.05 mm | <b>53N87</b>                                                                        | <b>53N87SC</b>                                                                      | <b>53N87L</b>                                                                       | <b>53N87XL</b>                                                                      | <b>53N87XXL</b>                                                                      |

## TIGZONE AE-300 – Front End Consumables

### Parts

These parts come in different **ma-  
terials, variants**  
and **sizes**.

For additional  
information see  
below.



|                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-------------------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                   |  |  |  |  |  |  |  |
|                   |  | 15<br>Insulator<br>Standard                                                       | 30<br>Insulator<br>Stubby Gas<br>Lens                                             | 26<br>Stubby Collet                                                               | 27<br>Collet Wedge                                                                | 28<br>Short Collet<br>Body                                                         | 31<br>Stubby Gas<br>Lens                                                            |
| Size              |  | 18CG                                                                              | 18CGG                                                                             | 10N21S                                                                            | -                                                                                 | 4CB20                                                                              | 4GL20                                                                               |
| Ø .020" (0.5 mm)  |  |                                                                                   |                                                                                   | 10N22S                                                                            | 4C040GS                                                                           | 4CB40                                                                              | 4GL40                                                                               |
| Ø .040 " (1.0 mm) |  |                                                                                   |                                                                                   | 10N23S                                                                            | 4C116GS                                                                           | 4CB116                                                                             | 4GL116                                                                              |
| Ø 1/16" (1.6 mm)  |  |                                                                                   |                                                                                   | 10N24S                                                                            | 4C332GS                                                                           | 4CB332                                                                             | 4GL332                                                                              |
| Ø 3/32" (2.4 mm)  |  |                                                                                   |                                                                                   | 10N25S                                                                            | 4C418GS                                                                           | 4CB418                                                                             | 4GL418                                                                              |
| Ø 1/8" (3.2 mm)   |  |                                                                                   |                                                                                   | 4C532                                                                             | 4C532GS                                                                           | 4CB532                                                                             | 4GL532                                                                              |
| Ø 5/32" (4.0 mm)  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |

|      |            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|      |            |  |  |  |  |  |  |  |  |
|      |            | 29<br>Cup<br>(29,35 mm)                                                             | 29<br>Super Cup<br>(Sil.Nitride)                                                    | 29<br>Cup L<br>(48 mm)                                                              | 29<br>Cup XL<br>(63 mm)                                                             | 32<br>Cup<br>(25,40 mm)                                                              | 32<br>Super Cup<br>(Sil.Nitride)                                                      | 32<br>Cup L<br>(35 mm)                                                                | 32<br>Cup XL<br>(72 mm)                                                               |
| Size |            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| #3   | Ø 4.75 mm  | -                                                                                   | -                                                                                   | A796F70                                                                             | A796F74                                                                             | -                                                                                    | -                                                                                     | -                                                                                     | -                                                                                     |
| #4   | Ø 6.35 mm  | 13N08                                                                               | 13N08SC                                                                             | A796F71                                                                             | A796F75                                                                             | 53N58                                                                                | 53N58SC                                                                               | 53N58L                                                                                | 53N58XL                                                                               |
| #5   | Ø 7.93 mm  | 13N09                                                                               | 13N09SC                                                                             | A796F72                                                                             | A796F76                                                                             | 53N59                                                                                | 53N59SC                                                                               | 53N59L                                                                                | 53N59XL                                                                               |
| #6   | Ø 9.52 mm  | 13N10                                                                               | 13N10SC                                                                             | A796F73                                                                             | A796F77                                                                             | 53N60                                                                                | 53N60SC                                                                               | 53N60L                                                                                | 53N60XL                                                                               |
| #7   | Ø 11.11 mm | 13N11                                                                               | 13N11SC                                                                             | -                                                                                   | -                                                                                   | 53N61                                                                                | 53N61SC                                                                               | 53N61L                                                                                | 53N61XL                                                                               |
| #8   | Ø 12.70 mm | 13N12                                                                               | 13N12SC                                                                             | -                                                                                   | -                                                                                   | 53N61S                                                                               | 53N61SSC                                                                              | 53N61SL                                                                               | -                                                                                     |
| #10  | Ø 15.87 mm | 13N13                                                                               | 13N13SC                                                                             | -                                                                                   | -                                                                                   | 53N61S-10                                                                            | -                                                                                     | -                                                                                     | -                                                                                     |
| #12  | Ø 19.05 mm | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                     | -                                                                                     | -                                                                                     |

## TIGZONE AE-300 – Front End Consumables



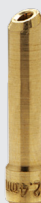
|                  | 33                  | 16           | 34                    | 36                            |     | 37                   | 38                                 |
|------------------|---------------------|--------------|-----------------------|-------------------------------|-----|----------------------|------------------------------------|
|                  | Insulator Gas Saver | Collet Wedge | Collet Body Gas Saver | Tungsten Adapter with Screens |     | Cup Pyrex (47,62 mm) | Short Cup for Gas Saver (47,62 mm) |
| Size             |                     |              |                       |                               |     |                      |                                    |
| Ø .020" (0.5 mm) |                     | -            | -                     | -                             | #3  | Ø 4.75 mm            | -                                  |
| Ø .040" (1.0 mm) |                     |              |                       |                               | #4  | Ø 6.35 mm            | 3A4GS                              |
| Ø 1/16" (1.6 mm) |                     |              |                       |                               | #5  | Ø 7.93 mm            | 3A5GS                              |
| Ø 3/32" (2.4 mm) |                     |              |                       |                               | #6  | Ø 9.52 mm            | 3A6GS                              |
| Ø 1/8" (3.2 mm)  | 3HSGS               | 3C040GS      | 3CBGS                 | TAS040GS                      | #7  | Ø 11.11 mm           | 3A7GS                              |
| Ø 5/32" (4.0 mm) |                     | 3C116GS      |                       | TAS116GS                      | #8  | Ø 12.70 mm           | 3A8GS                              |
|                  |                     | 3C332GS      |                       | TAS332GS                      | #10 | Ø 15.87 mm           | -                                  |
|                  |                     | 3C418GS      |                       | TAS418GS                      | #12 | Ø 19.05 mm           | -                                  |
|                  |                     | 3C532GS      |                       | TAS532GS                      |     |                      |                                    |



|                  | 33                  | 27           | 39                    | 36                            |     | 40                   | 41                                 |
|------------------|---------------------|--------------|-----------------------|-------------------------------|-----|----------------------|------------------------------------|
|                  | Insulator Gas Saver | Collet Wedge | Collet Body Gas Saver | Tungsten Adapter with Screens |     | Cup Pyrex (32,50 mm) | Short Cup for Gas Saver (32,50 mm) |
| Size             |                     |              |                       |                               |     |                      |                                    |
| Ø .020" (0.5 mm) |                     | -            | -                     | -                             | #3  | Ø 4.75 mm            | -                                  |
| Ø .040" (1.0 mm) |                     |              |                       |                               | #4  | Ø 6.35 mm            | 2A4GS                              |
| Ø 1/16" (1.6 mm) |                     |              |                       |                               | #5  | Ø 7.93 mm            | 2A5GS                              |
| Ø 3/32" (2.4 mm) |                     |              |                       |                               | #6  | Ø 9.52 mm            | 2A6GS                              |
| Ø 1/8" (3.2 mm)  | 3HSGS               | 4C040GS      | 4CBGS                 | TAS040GS                      | #7  | Ø 11.11 mm           | 2A7GS                              |
| Ø 5/32" (4.0 mm) |                     | 4C116GS      |                       | TAS116GS                      | #8  | Ø 12.70 mm           | 2A8GS                              |
|                  |                     | 4C332GS      |                       | TAS332GS                      | #10 | Ø 15.87 mm           | -                                  |
|                  |                     | 4C418GS      |                       | TAS418GS                      | #12 | Ø 19.05 mm           | -                                  |
|                  |                     | 4C532GS      |                       | TAS532GS                      |     |                      |                                    |

TIGZONE AE-300 – Front End Consumables



|                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                  |  |  |  |  |
|                  | 27<br>Insulator Gas Saver LD                                                      | 27<br>Collet Wedge                                                                | 43<br>Collet Body Gas Saver LD                                                    | 44<br>Tungsten Adapter with Screens                                               |
| Size             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Ø .020" (0.5 mm) | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| Ø .040" (1.0 mm) |                                                                                   | 4C040GS                                                                           |                                                                                   | TAS040GSLD                                                                        |
| Ø 1/16" (1.6 mm) |                                                                                   | 4C116GS                                                                           |                                                                                   | TAS116GSLD                                                                        |
| Ø 3/32" (2.4 mm) | 4HSGSLD                                                                           | 4C332GS                                                                           | 4CBGSLD                                                                           | TAS332GSLD                                                                        |
| Ø 1/8" (3.2 mm)  |                                                                                   | 4C418GS                                                                           |                                                                                   | TAS418GSLD                                                                        |
| Ø 5/32" (4.0 mm) |                                                                                   | 4C532GS                                                                           |                                                                                   | TAS532GSLD                                                                        |

|      |                                                                                     |                                                                                     |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|      |  |  |
|      | 45<br>Cup Pyrex LD (47,62 mm)                                                       | 46<br>Cup LD GasSaver (47,62 mm)                                                    |
| Size |                                                                                     |                                                                                     |
| #3   | Ø 4.75 mm                                                                           | -                                                                                   |
| #4   | Ø 6.35 mm                                                                           | -                                                                                   |
| #5   | Ø 7.93 mm                                                                           | -                                                                                   |
| #6   | Ø 9.52 mm                                                                           | -                                                                                   |
| #7   | Ø 11.11 mm                                                                          | -                                                                                   |
| #8   | Ø 12.70 mm                                                                          | -                                                                                   |
| #10  | Ø 15.87 mm                                                                          | -                                                                                   |
| #12  | Ø 19.05 mm                                                                          | -                                                                                   |
| #18  | Ø 28.50 mm                                                                          | 2A12GSLD                                                                            |
|      | 4P18GSLD                                                                            | 4A18GSLD                                                                            |