



## GAS OXYGEN MULTI-PORT BURNER TIPS

Carlisle Gas Oxygen Multi-port Burner Tips can be used on a number of different hand torches, machines, or in custom manifolds such as a crossfire setup. These powerful tips offer a wider flame pattern by providing several drilled ports in either a circular or perforated pattern (See the *Circular vs. Perforated* reference below) rather than one single orifice. It is important to note that these Multi-port Burner Tips are not piloted and therefore cannot be pushed as hard as a piloted orifice tip.

There are two separate types of Multi-port Burner Tips available. The first line of tips is the C-536 line which features a circular port pattern. The C-536 line is constructed with a brass hex body and a stainless steel insert that is pressed and soldered into the body.

The second line of Multi-port Burner Tips is the 1380 series. The 1380 series features a perforated port pattern with a stainless steel insert and a sectional brass body. The 1380 series also offers an advanced insert method where the insert is threaded into the body to ensure that it will not blow out of the body during high pressure use.

Both series of tips offer the stainless insert and the brass body construction since both metals serve a different purpose. The stainless insert resists face degradation while the body constructed of brass is a better dissipater of heat than the stainless. Also, both tips are offered in a 3/8"-32 and 7/16"-24 female threading. The C-536-53 tip is the only exception to this and is offered in 3/8"-32, 7/16"-24 and 1/2" NPT female threading.

The Multi-Port Burner Tip series can be manufactured in special port configurations. Please contact your Carlisle Representative with your custom needs.



1381-19  
15D002-0000



C-536-14  
15D051-0000

### BULLETIN REFERENCES

Hand Torches-      Bulletins 22A, 22B, 22C, 22E  
Adapters-            Bulletin 24C

Gas Oxygen Multi-port Burner Tips are pre-mixed. As with any pre-mixed burner, be sure to use the proper equipment:

Mixers-                Bulletins 16E, 17C, 17D  
Controls-              Bulletins 16A, 16E  
Safety-                 Bulletins 18A, 18B



Circular Pattern



Perforated Pattern

Circular vs. Perforated

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The following section of charts gives specific information concerning Carlisle's Gas Oxygen Multi-port Burner Tips. The brief summary that follows will define a few of the chart's fields. If there are any further questions concerning these charts, contact Carlisle directly and our sales staff will be happy to help you.

CATALOG NUMBER	BURNER NUMBER	HEIGHT	WIDTH	THREAD SIZE	PORT SIZE	# OF PORTS	FOCAL LENGTH	OVERALL FLAME	PORT PATTERN
15D001-0000	1380-7	1 3/4"	1/2"	3/8"-32 F	67	7	3/16"	4 1/2"	P
15D001-1000	1380-7	1 3/4"	1/2"	7/16"-24 F	67	7	3/16"	4 1/2"	P
15D002-0000	1381-19	1 3/4"	1/2"	3/8"-32 F	67	19	1/2"	7"	P
15D002-1000	1381-19	1 3/4"	1/2"	7/16"-24 F	67	19	1/2"	7"	P
15D003-0000	1382-31	1 3/4"	5/8"	3/8"-32 F	67	31	3/4"	9"	P
15D003-1000	1382-31	1 3/4"	5/8"	7/16"-24 F	67	31	3/4"	9"	P
15D050-0000	C-536-10	2"	1/2"	3/8"-32 F	60	10	1/2"	6"	C
15D050-1000	C-536-10	2"	1/2"	7/16"-24 F	60	10	1/2"	6"	C
15D051-0000	C-536-14	2"	1/2"	3/8"-32 F	60	14	5/8"	7"	C
15D051-1000	C-536-14	2"	1/2"	7/16"-24 F	60	14	5/8"	7"	C
15D052-0000	C-536-18	2"	5/8"	3/8"-32 F	60	18	3/4"	8"	C
15D052-1000	C-536-18	2"	5/8"	7/16"-24 F	60	18	3/4"	8"	C
15D053-0000	C-536-53	2"	1"	3/8"-32 F	60	53	3/4"	8"	C*
15D053-1000	C-536-53	2"	1"	7/16"-24 F	60	53	1"	10"	C*
15D053-2000	C-536-53	2"	1"	1/2" NPTF	60	53	1 1/4"	12"	C*

\* The C-536-53 has one circular set of porting and a small star pattern in the center of the circular

<i>CATALOG NUMBER</i>	This represents Carlisle's number by which the burner tip can be ordered.
<i>BURNER NUMBER</i>	This number works as the burner's model number.
<i>FOCAL LENGTH</i>	This is the length of the smaller focused blue flame under normal operation.
<i>OVERALL FLAME LENGTH</i>	This is the length from the face of the tip to the very end of the flame.
<i>PORT PATTERN</i>	Whether the port pattern is Circular (C) or Perforated (P).

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