

Outfits

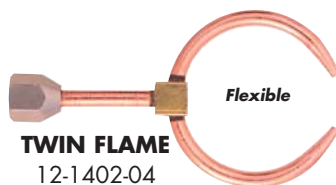
Tips & Technical Information



CURVED
12-1401-07



STRAIGHT
129-124-04



TWIN FLAME
12-1402-04

Sapphire Tips

Due to the extraordinarily small orifice diameter of tips sizes #2-3, tips are fitted with a laser drilled synthetic sapphire to assure accurate gas flow and consistent flame characteristics.

ALL TIPS ARE 100% FLAME TESTED



Flexible Tip Extension
For Customizing Angle And Distance From Handle
Stock No. 2327-3SP
Length 3" (76mm)

Size	CURVED Stock No.	STRAIGHT Stock No.	Use With Oxygen and:	Orifice Dia.	Drill Size	Gas Pressures (PSI)		Gas Consumption (CFH)		BTU/hr	Brazing Capacity Copper Pipe
						Oxygen	Fuel	Fuel	Oxygen		
#2	12-1401-02	N/A	Acetylene, Hydrogen only	.006	97	2	2	.09	.11	130	N/A
#3	12-1401-03	N/A	Any Fuel Gas	.011	85	4	4	.78	.94	1,150	Up to 1/8"
#4	12-1401-04	129-124-04		.020	76	5	5	1.57	1.88	2,300	1/4" - 3/8"
#5	12-1401-05	N/A		.029	69	6	6	2.58	3.1	3,800	5/16" - 5/8"
#6	12-1401-06	N/A		.037	63	6	6	4.48	5.38	6,585	3/8" - 3/4"
#7	12-1401-07	N/A		.047	56	8	8	6.27	7.52	9,200	1/2" - 7/8"

Size	TWIN FLAME Stock No.	Use With Oxygen and:	Orifice Dia.	Drill Size	Gas Pressures (PSI)		Gas Consumption (CFH)		BTU/hr	Brazing Capacity Copper Pipe
					Oxygen	Fuel	Fuel	Oxygen		
#4	12-1402-04	Any Fuel Gas	.020	76	5	5	2.91	3.49	4,300	1/4" - 5/8"
#5	12-1402-05		.029	69	6	6	4.70	5.64	6,900	5/16" - 3/4"
#6	12-1402-06		.037	63	6	6	6.50	7.80	9,550	3/8" - 7/8"



TWIN FLAME

NOTE: All values determined using acetylene gas.



APPROX. FLAME SIZES AT NEUTRAL MIXTURE (OXYGEN/ACETYLENE)

#7
#6
#5
#4
#3
#2



NOTE: 1 PSI minimum for Natural Gas use.



HEATING TIP (Rosebud)

Heating Tips

Stock No.	Fuel	Gas Pressures (PSI)		Length	Gas Consumption (CFH)		Rosebud Flame BTU/hr
		Oxygen	Fuel Gas		Fuel	Oxygen	
13-662	Acetylene, Hydrogen Propylene, MAPP® 8,000 BTU Output	14	10	6" (153mm)	4.58	5.51	7,050
13717	Propane 5,000 BTU	14	10	6" (153mm)	5.12	12.80	12,800
	Natural Gas 2,400 BTU	7	5				

Tip Ends Actual Size



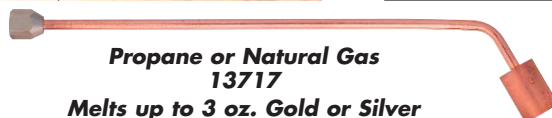
Acetylene



Propane



Acetylene 13-662
Melts up to 3 oz. Gold or Silver



Propane or Natural Gas 13717
Melts up to 3 oz. Gold or Silver

