

NATIONAL TORCHES

by Premier Industries

4/30/02

TIP SELECTOR CHART

(Not all tips manufactured by National are listed below; consult factory or you distributor for special application needs.)

Propane, Natural Gas and Air					
Tip No.	Fuel Capacity (CFH)	Gas Pressure (PSI)	Air Capacity (CFH)	Air Pressure (PSI)	Tip Diameter (inches)
N-0	8	1/4	80	5	0.63
N-1	10	1/4	100	10	0.63
NP-1		1/4			
N-2	20	1/4	200	10	0.75
NP-2		1/4			
N-3	30	1/4	300	25	1
NP-3		1/4			
N-4	40	1/4	400	25	1.1
N-4A		1/4			
N-6	60	1/4	600	25	1.38
N-6A		1/4			
NB-2	60	1/4	600	25	1.65
NB-2A		1/4			
201	3	1/4	12	6	0.38

Propane, Natural Gas and Oxygen						
Tip No.	Fuel Capacity (CFH)	Gas Pressure (PSI)	Oxygen Capacity (CFH)	Oxygen Pressure (PSI)	Orifice Diameter	
					(inches)	(mm)
OX-00	0.3	1/4	1	3	0.020	0.50
OX-0	0.5	1/4	2	3	0.032	0.81
OX-1	1	1/4	4	3	0.042	1.07
OX-2	2	1/4	8	6	0.055	1.40
OX-3	3	1/4	12	6	0.07	1.78
OX-4	4	1/4	16	6	0.082	2.08
OX-5	5	1/4	20	8	0.100	2.54
Multi-Orifice Tips						
HTM-0	5	1/4 to 4	20	8	(7) 0.031	
HTM-1	6	1/4 to 4	22	10	(9) 0.040	
HTM-2	7	1/4 to 4	26	12	(9) 0.048	
HTM-3	8	1/4 to 4	28	15	(9) 0.055	
HT-0	3	1/4 to 4	12	6	(7) 0.025	
HT-1	3	1/4 to 4	18	6	(12) 0.025	
HT-2	6	1/4 to 4	22	10	(19) 0.025	
HT-3	7	1/4 to 4	25	12	(31) 0.025	
HTC-0						
HTC-1						
HTC-2						
HTC-3						
SOX-1						
SOX-2						
SOX-3						
SOX-4						
SOX-5						
HTS-0						
HTS-1						
HTS-2						
Surface Mix Tips						
SM-21	19	1-5	76	10	grooves & orifices	
SM-7	15	1-5	60	10	grooves & orifices	
SM-5	7.5	1-5	30	10	grooves & orifices	

FLAME TEMPERATURE CHART

FUEL	Flame Temperature in Degrees Fahrenheit When Burned with:		BTU Values per Cubic Ft.	Heat Transfer Velocity in Arbitrary Terms
	Oxygen	Air		
Propane	4800	3500	2420	Fast
Natural Gas	4600	3400	1080	Slow
Hydrogen	4850	4010	318	Very Fast

EQUIPMENT WARRANTY POLICY

Premier Industries ("PI") warrants to the initial user of products manufactured and sold by PI that such products are free from defect in material and workmanship, under normal use and service, for a period of ninety days from the date of installation or one year from the date of shipment from the factory, whichever comes first. Within this warranty period, PI agrees to replace or repair at the factory in Minnesota, any product found by PI to have been defective in material or workmanship at no charge to the user. PI will pay for or warrant repairs made by anyone other than factory personnel. PI shall not be liable for consequential or indirect damages to the extent permitted by law. This warranty shall be the exclusive warranty and shall be in lieu of all implied warranties including implied warranties of fitness for a particular purpose or application. This warranty shall not apply to product that has been altered or modified except by PI factory personnel or product which has been damaged by accident, abuse or misuse.

PREMIER INDUSTRIES
980 Osborne Road NE, Fridley, Minnesota 55432 Phone: 763-786-4020 FAX: 763-786-5424
Web site: nationaltorch.com E-mail: billprem@uswest.net