

Materials List for:

# How to Ignite an Atmospheric Pressure Microwave Plasma Torch without Any Additional Igniters

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URL: <https://www.jove.com/video/52816>

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## Materials

Name	Company	Catalog Number	Comments
2 kW magnetron	Muegge	MH2000S 211BA	
2 kW power supply	Muegge	ML2000D-111TC	
insulator - circulator with water load	Muegge	MW1003A-210EC	
water load	Muegge	MW1002E-260EC	
three stub tuner	Muegge	MW2009A-260ED	
orifices	homemade		
microwave plasma torch	homemade		
spectrum analyzer	Agilent	E4402B	
network analyzer	Anritsu	MS4662A	
calibration kit	Anritsu	model 3753	
directional coupler	homemade		
20 dB attenuator	Weinschee engineering	20 dB AA57u8	
coaxial to rectangular wave guide transition	Muegge	MW5002A-260YD	
adaptor 7-16 to N connector	Telegärtner	7-16/N Adaptor	
coaxial cable	Rosenberger Hochfrequenztechnik	LU7_070_800	
high speed camera	Photron	fastcam SA5	
lens	Revueflex	makro revuenon 1:3.5/28mm	
local gas ventilation	Industrievertrieb Henning	ACD220	
UV protection glasses	uvex	HC-F9178265	
microwave leakage tester	conrad electronic	not available	
microwave survey meter	Holiday industries inc.	81273	