

## **DATA SHEET**

A350 NOZZLE

Nozzle for PB3/PG31 atmospheric plasma generator

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**A350** is a high performance nozzle to be operated with a pulsed atmospheric arc (PAA®) plasma generator (PG31) and a pulsed power supply (PS2000).

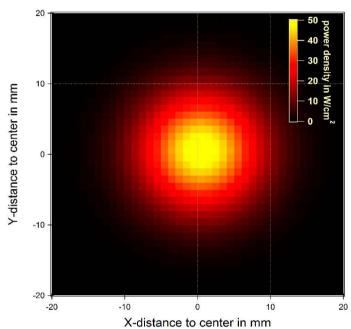
The nozzle achieves the following functions:

- focussing of the plasma flame
- acting as a grounded cathode to confine the high power electric arc
- forming of the cavity to excite the process gas

#### A350 is used for:

surface cleaning, surface activation, thermal treatment, and reactive coating. <u>Special features</u>: optimized for sensitive materials.





Description			
Nozzle name	A350		
Nozzle length	50 mm		
Orifice diameter	4 mm		
Outer diameter	21 mm		
Mass	90 g		
Process parameters			
Gas types	Air; Nitrogen; Forming gas 95/5		
Gasflow	35 - 60 L/min		
Working distance	5 - 30 mm		
Activation width	5 - 15 mm		
Lifetime	>500 h (Air); >1000 h (Nitrogen)		

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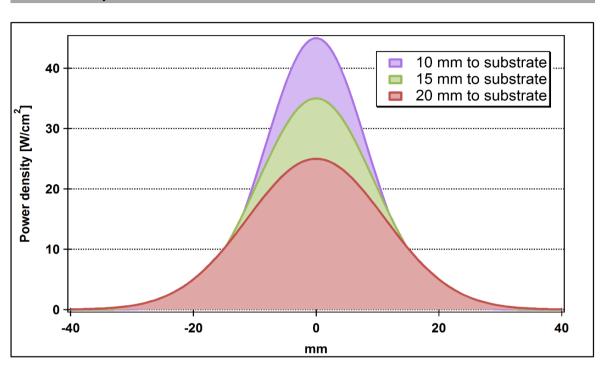
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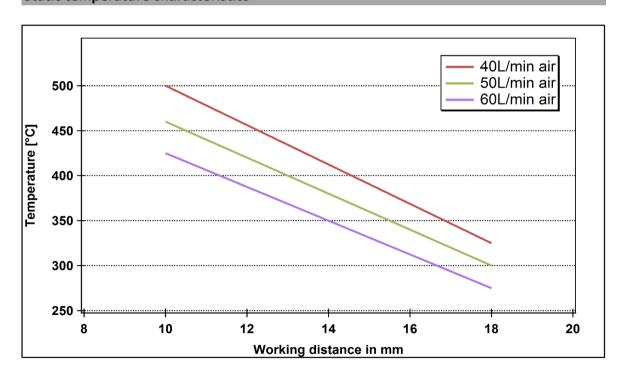
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#### **Power density**



### **Static temperature characteristics**



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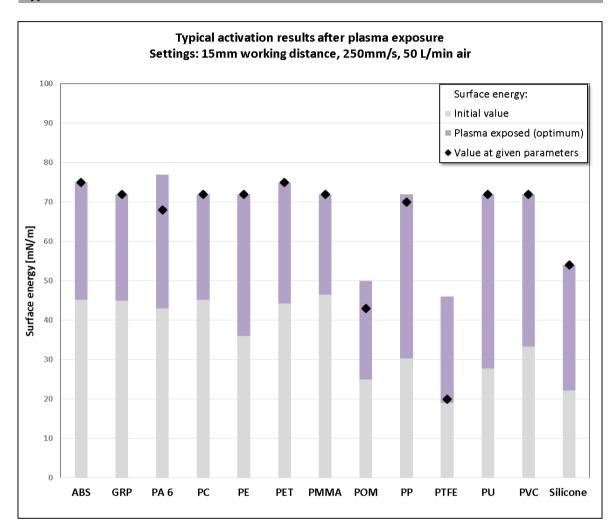
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#### **Typical activation results**



**A350** typical activation results for the given parameter set of speed and working distance operating with air. Higher surface energies through process parameter fitting can be achieved.

Surface temperature rise at given parameters for bulk material <70°C.

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