

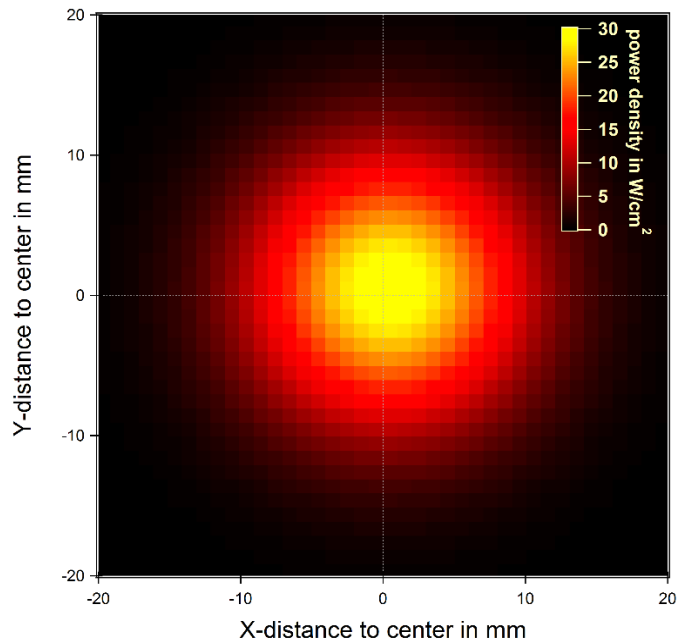
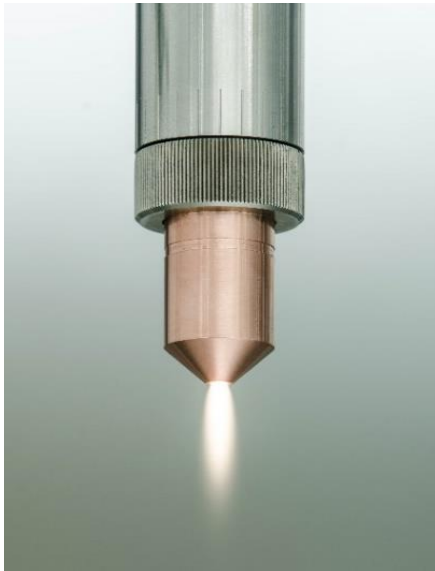
**A250** is a high performance nozzle to be operated with a pulsed atmospheric arc (PAA<sup>®</sup>) plasma generator (PG31) and a pulsed power supply (PS2000).

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

**A250** is used for:  
surface cleaning and surface activation.

Special features: Optimized for electric potential-free processes.



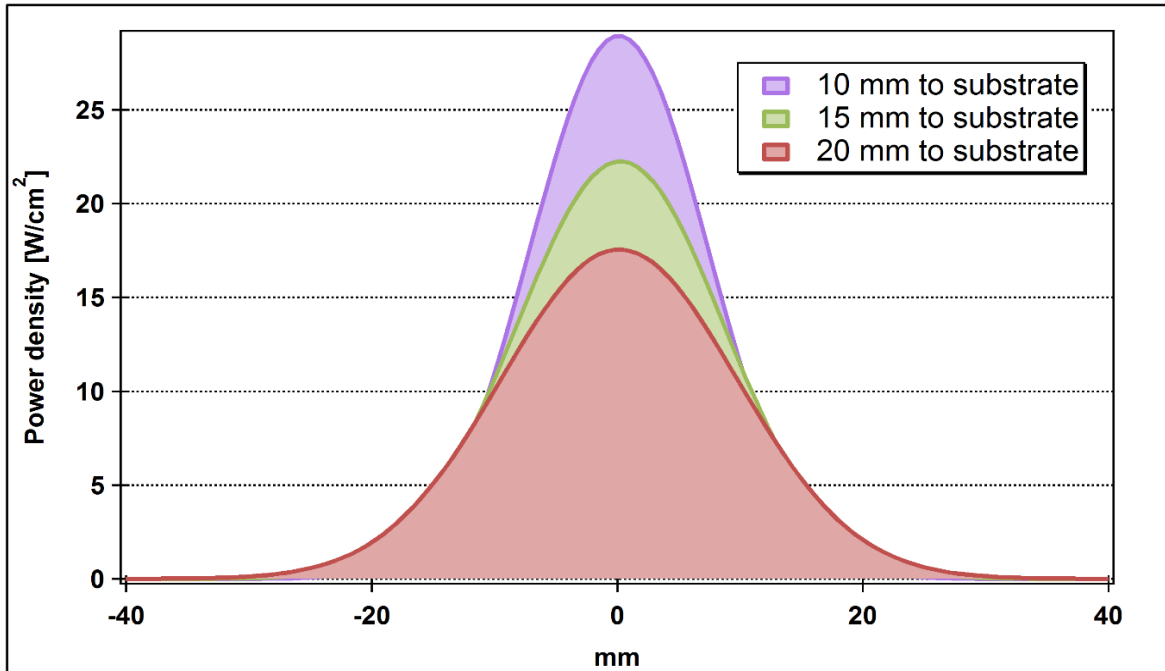
### Description

Nozzle name	A250
Nozzle length	40 mm
Orifice diameter	3 mm
Outer diameter	21 mm
Mass	100 g

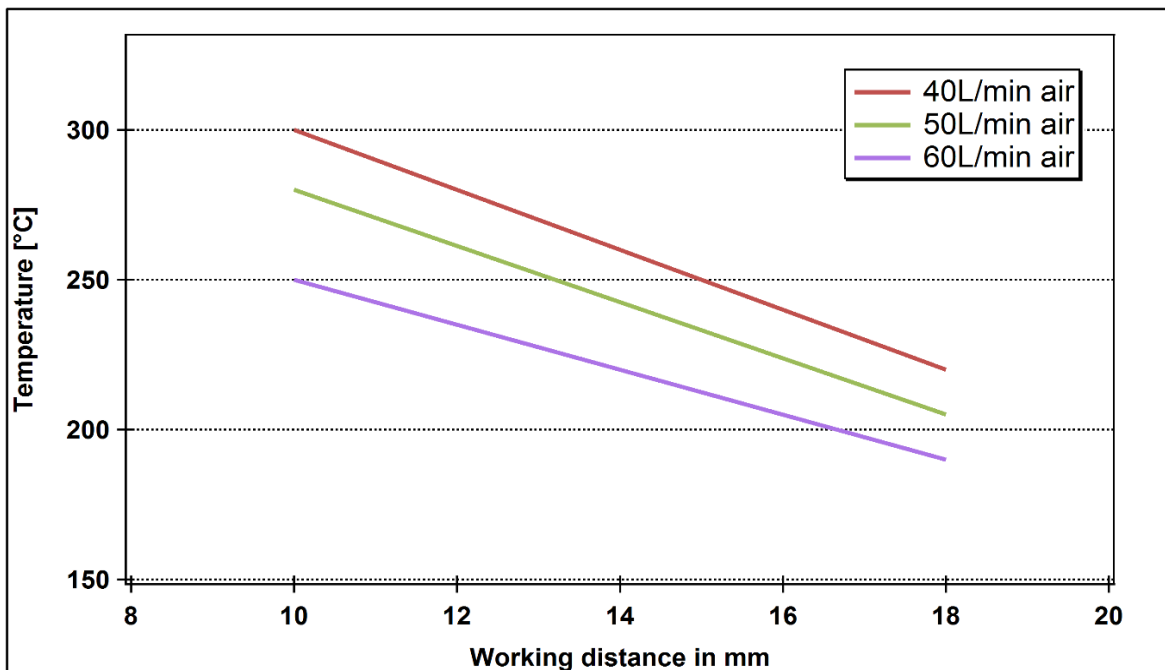
### Process parameters

Gas types	Air; Nitrogen; Forming gas 95/5
Gasflow	35 - 50 L/min
Working distance	5 - 35 mm
Activation width	5- 15 mm
Lifetime	>200 h (Air); >500h (Nitrogen)

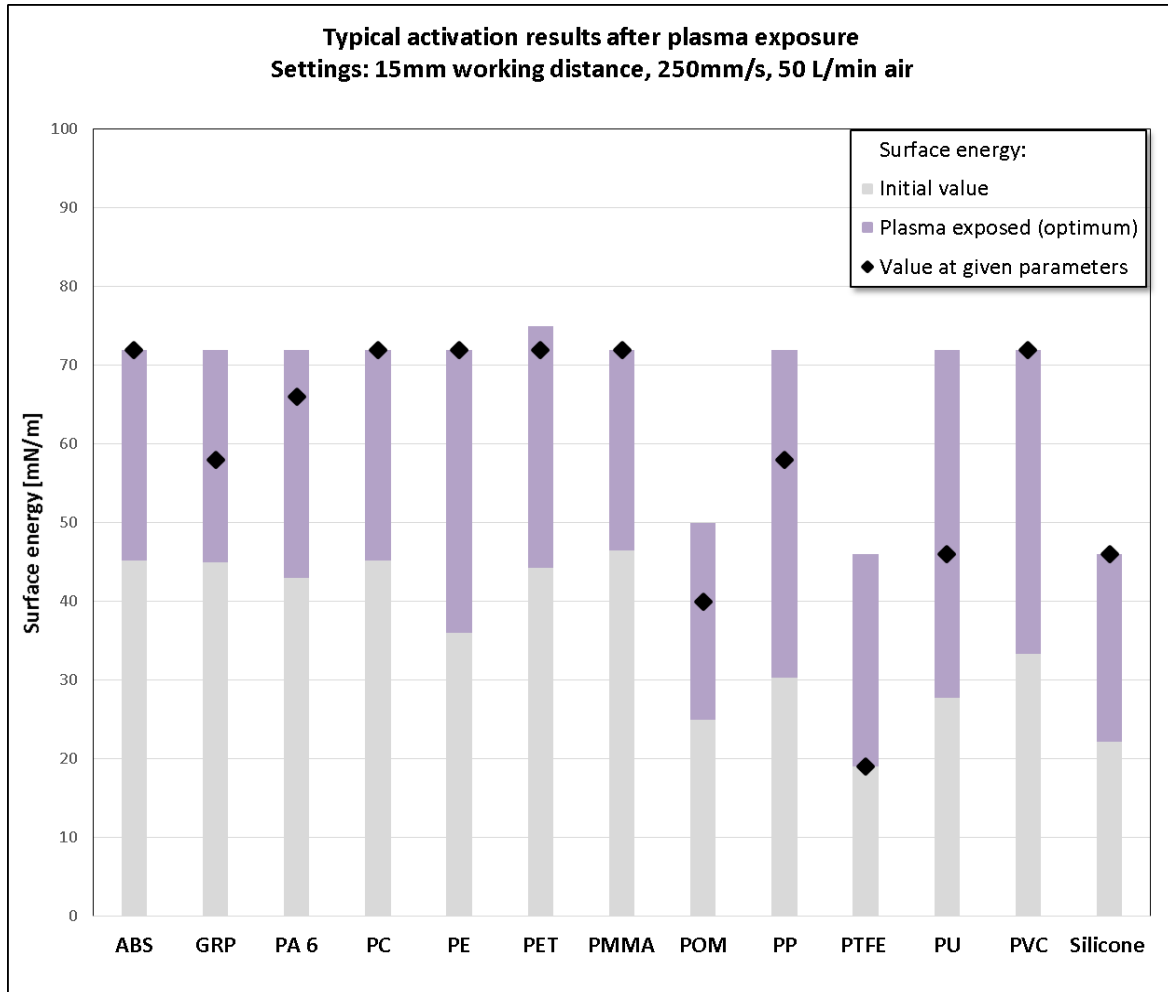
**Power density**



**Static temperature characteristics**



Typical activation results



**A250** 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 <40°C.