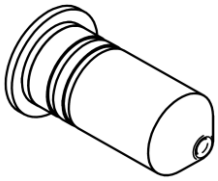
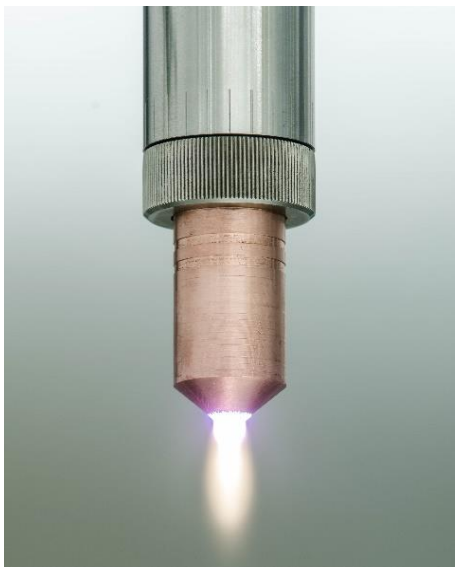
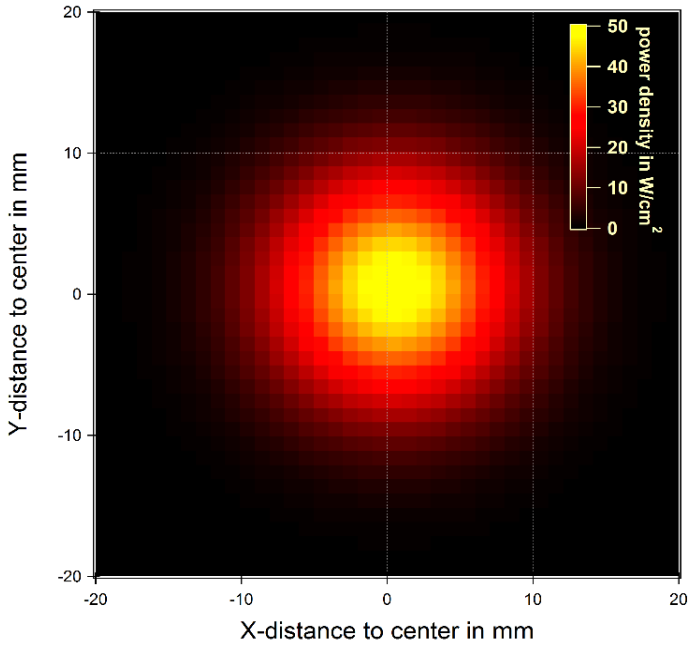


**A350** is a high performance nozzle to be operated with a pulsed atmospheric arc (PAA®) plasma generator (PG31) and a pulsed power supply (PS2000).

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.
Special features: 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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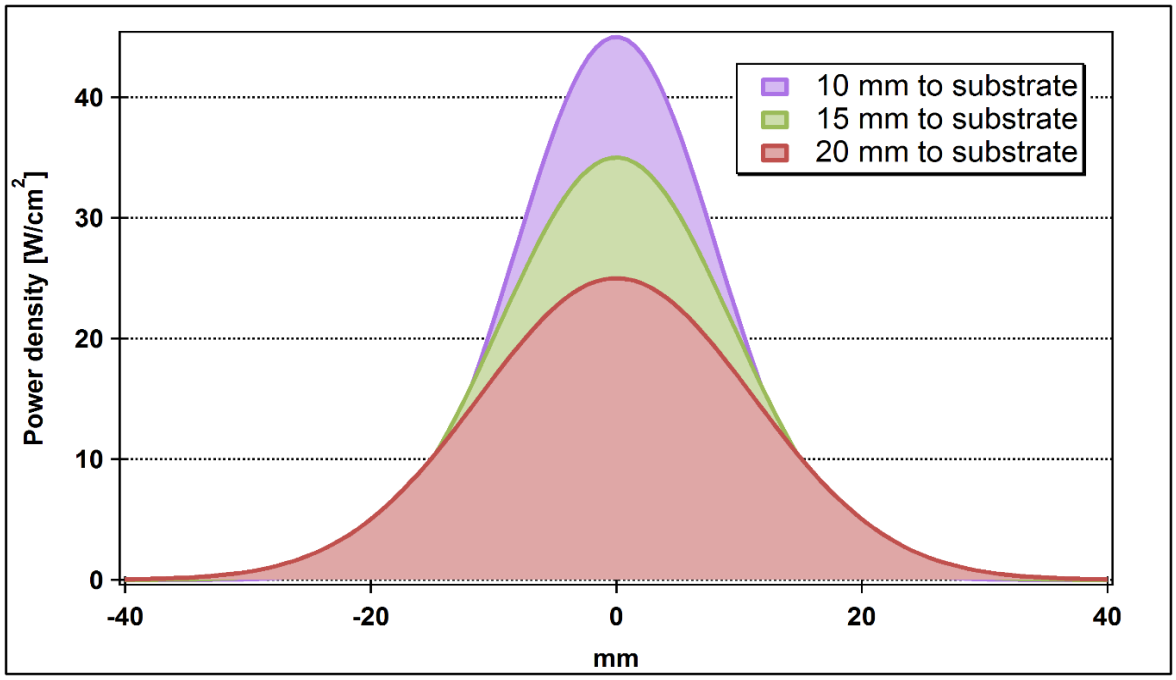
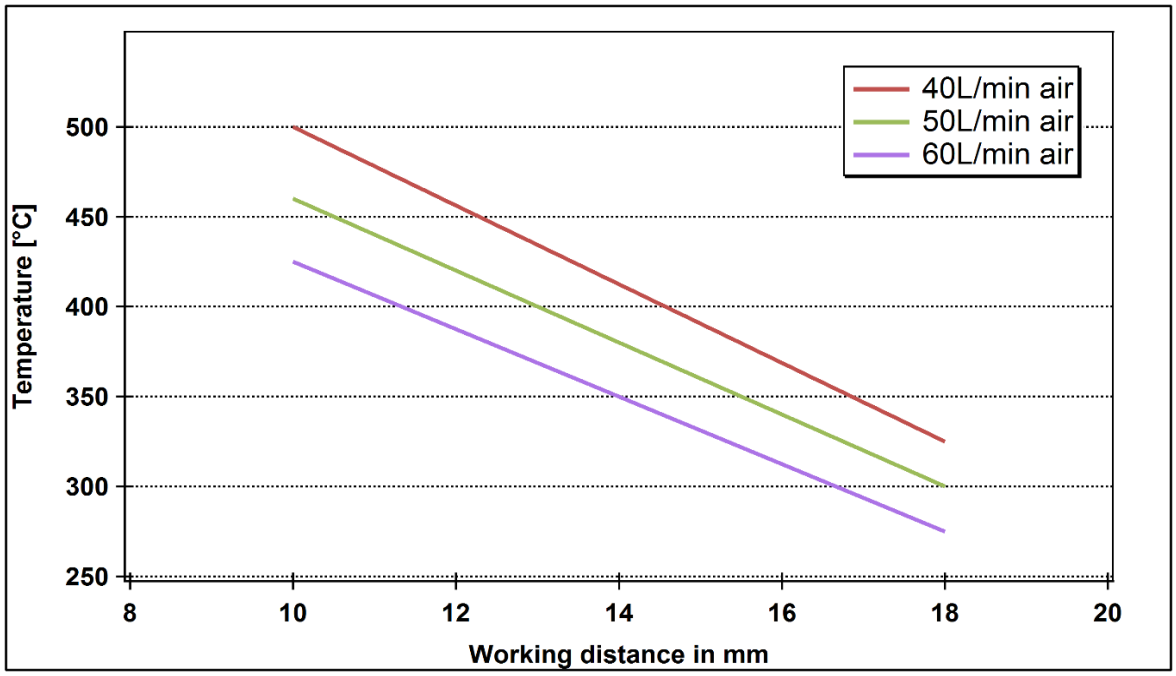
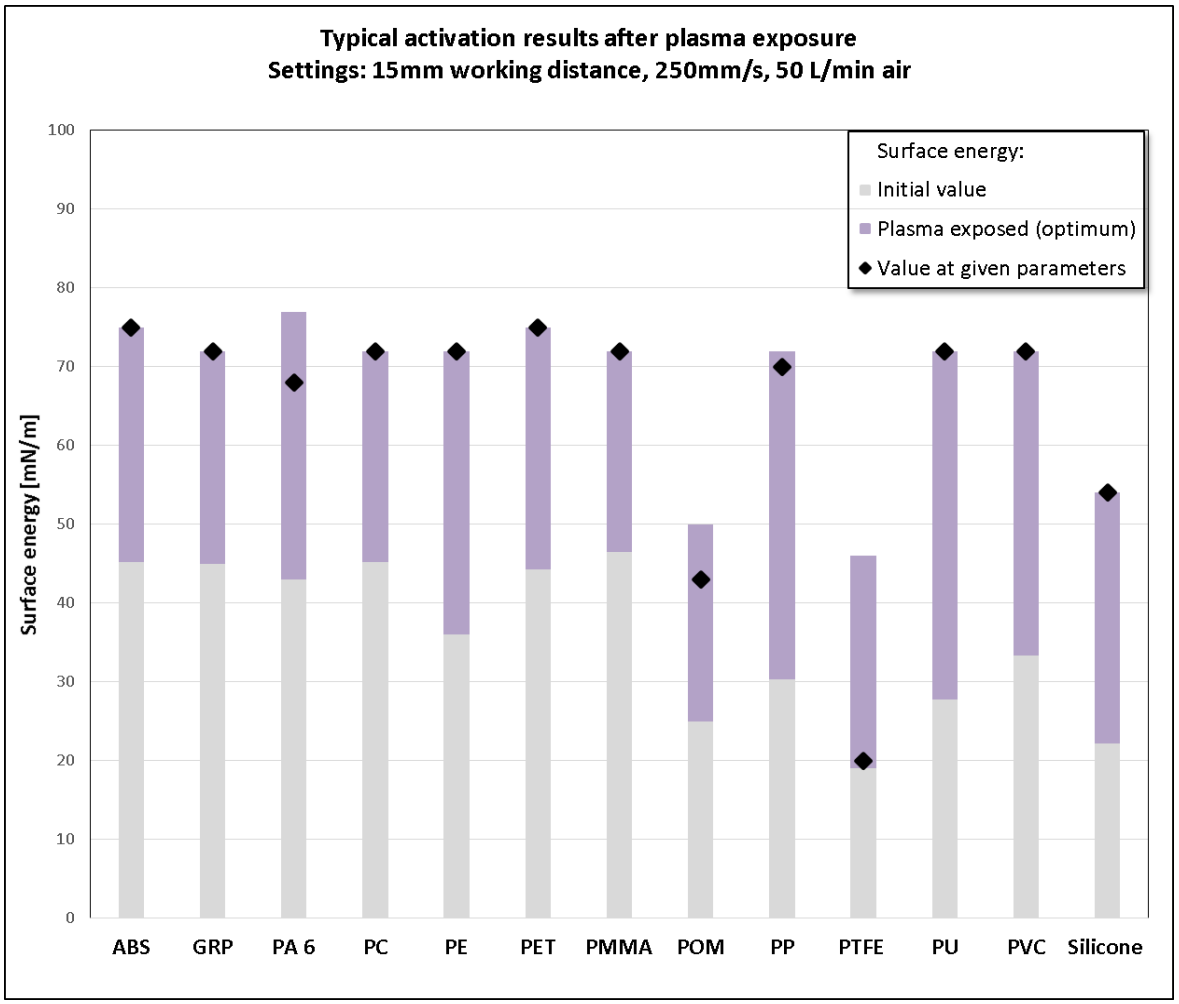
## Power density




## Static temperature characteristics



## 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.