

S/P/A[®] COATINGS



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S/P/A[®] Coatings were made to optimize the welding process in general. They are used for **current contact tips**, **gas nozzles** and **machine parts** which are exposed to high spatter impacts or need current insulating characteristics. Coatings supplied by S/P/A[®] Welding Systems GmbH increase the duration of the components and help to improve the welding process due to their flexible applicable properties.

S/P/A[®] COATINGS

GAS NOZZLES

Coatings supplied by S/P/A[®] can guarantee different characteristics such as current insulating- or best anti friction properties. For our gas nozzles we also offer our spatter repelling coating. This coating minimizes the cleaning process and interval and prolongs the service life of the gas nozzle. This is your contribution to the environment due to less wastage which saves money and you can increase productivity.



ADVANTAGES

- + minimum cleaning effort
- + can be applied on any surface
- + less downtime (automation)
- + no anti stick sprays or pastes necessary
- + no toxic vapours
- + increased durability results in higher productivity

CHARACTERISTICS / APPLICATIONS

Spatter repelling

It's our standard coating especially in combination with our shielding gas nozzles. This coating has extreme spatter repelling characteristics and stands for less cleaning work and increased service life of the gas nozzle.

Thermal resistance up to 400 °C.

TYPES

Gas Nozzles with S/P/A[®] Coatings are available for all the standard MIG torches.

S/P/A[®] COATINGS

CURRENT CONTACT TIPS

For our current contact tips DHCA we offer our proven spatter resistant coating WBC. In addition the current-insulating properties and the heat resistance of the coating provide an optimal supplement for each welding process such as root welding of heavy-walled pipes in pipeline construction.



ADVANTAGES

- + minimum cleaning effort
- + no releasing agents required
- + S/P/A[®] Coatings are suitable for all gas nozzles, contact tips and metals
- + flexible applicable due to different properties
- + no retrofitting problems

CHARACTERISTICS / APPLICATIONS

Spatter repelling and current insulating

This coating provides excellent current insulating characteristics and has good spatter repelling properties. Especially used for Applications in automatized welding with narrow bevel angles to avoid short circuits.

Thermal resistance up to 600 °C

TYPES

Current Contact Tips with S/P/A[®] Coatings are available for any MIG Welding Torch.

S/P/A[®] COATINGS

SAW NOZZLES

SAW nozzles are also made out of our special copper alloy DHCA. The higher heat resistance (up to 850 °C / 1562 °F) ensures a prolonged service life compared to standard SAW nozzles made out of CuCrZr. In combination with our coatings WBC, boron nitride or AL₂O₃ the durability can be increased significantly. At the same time a current insulation is guaranteed.



ADVANTAGES

- + minimum cleaning effort
- + no releasing agents required
- + S/P/A[®] Coatings are suitable for all gas nozzles, contact tips and metals
- + flexible applicable due to different properties
- + no retrofitting problems

CHARACTERISTICS / APPLICATIONS

Aluminium Oxide Coating

Spatter repelling and current insulating

This coating is extremely hard and resistant. In addition it is highly current insulating and spatter repelling. Especially suitable for all SAW tips which are exposed to high temperatures.

Thermal resistance up to 1200 °C

TYPES

SAW Nozzles with S/P/A[®] Coatings are available for all SAW systems

S/P/A[®] COATINGS

WELDING DEVICES & FIXTURES

As well as on our products S/P/A[®] DHCA Current Contact Tips the WBC coating can also be applied on welding devices, such as covers and fixture elements in the automated welding sector. The cleaning of the components which are exposed to welding spatter is simple and increases the service life of the individual components. The use of harmful and environmentally polluting welding sprays can be avoided.



ADVANTAGES

- + minimum cleaning effort
- + no releasing agents required
- + S/P/A[®] Coatings are suitable for all gas nozzles, contact tips and metals
- + flexible applicable due to different properties
- + no retrofitting problems

CHARACTERISTICS / APPLICATIONS

WBC Coatings

Spatter repelling and current insulating

This coating provides excellent current insulating characteristics and has good spatter repelling properties.

Thermal resistance up to 400°C

TYPES

All welding fixtures and covers as well as retaining devices can be coated with our various S/P/A[®] Coatings