

Nozzle Material Selection Guide

The materials CN Spraying Equipment states it machines with, and the service each one is normally specified for. Where a body material is not listed for a given nozzle on the site, it is confirmed against your duty before quotation.

Manufacturer	CN Spraying Equipment Co. Ltd.
Works	Xiagang Industrial Zone, Chang'an, Dongguan, Guangdong, China
Email	sales@cnspraysystem.com
Telephone	+86 769 81511985 Fax +86-769-85346679
Body materials	Selected brass, 303, 304 and 316 stainless steel. PP, PVC, PVDF, PTFE, ABS and aluminium bodies in the misting and air blower ranges.
Samples	Ready within 10 days. Trial samples sent free of charge.
Orders	OEM accepted, standard and non standard made to drawing or sample, small volume orders accepted.
Terms	Product listings state T/T 100% in advance and a 3 month quality guarantee.
Response	Inquiries answered within 6 hours.

Material	Normally specified for	Watch out for
Brass	Plain water service at moderate temperature and pressure. The lowest cost body in the range.	Corrodes in chloride bearing water and in chemical scrubbing liquor.
303 stainless steel	General washing, rinsing and cooling duty. The default body for most industrial positions.	Free machining grade, so it is less corrosion resistant than 316 in aggressive water.
304 stainless steel	General service where a standard austenitic grade is specified by the plant.	Not the grade to choose where chlorides are present.
316 stainless steel	Chlorides, scrubbing liquor, brine spraying and chemical processing.	Higher cost; specify it where the water analysis justifies it.
PP and PVC	Low pressure chemical service and misting bodies where metal is not required.	Temperature limited; check the working temperature before specifying.
PVDF and PTFE	Acid, alkali and solvent service where metal will not survive.	Mechanically softer than metal, so handle threads carefully on installation.
ABS	Wind jet air blower bodies in the air nozzle range.	Air service only, not a liquid pressure body.
Aluminium	Wind jet nozzle bodies where a light rigid metal body is wanted.	Not for corrosive liquid service.

How the factory controls it

Material Selection

Raw material is restricted to selected brass and 303, 304 and 316 stainless steel, chosen against the liquid and the temperature the nozzle will see.

Machining

Bodies and orifices are machined in house, which is what makes non standard sizes and one off replacement heads practical.

Inspection

Orifice and thread are checked before assembly, so a bar of nozzles holds the same size across its width.

Testing

Every product is tested before it leaves the factory. This is the step that catches a distorted pattern before it reaches your line.

Packing and Transport

Packaging and transportation are controlled in the same quality system, because a perfect orifice that arrives dented is still a rejected part.