

Material And Finish Guide

The five alloys we form and the eight surface finishes we apply, with the size limits and behaviour of each.

Materials

Material	Size range	Thickness	Typical use
AISI 304 stainless	ø6mm to ø3500mm	0.6mm to 16mm	Landscape, architecture, public art
AISI 316 and 316L	ø6mm to ø3500mm	0.6mm to 16mm	Coastal, pool side, de-icing salt
Q235 carbon steel	ø6mm to ø3500mm	0.6mm to 16mm	Fire pit balls, ironwork, rust patina
H62 brass alloy	ø6mm to ø3500mm	0.6mm to 6mm	Lighting, jewellery, hardware, roof finials
A6061 aluminium	ø6mm to ø3500mm	1mm to 6mm	Suspended art, lampshades, light sculpture

AISI 304 stainless steel

The default for architectural and landscape spheres. Takes a high quality mirror polish and holds it outdoors.

AISI 316 and 316L stainless steel

Higher corrosion resistance. Specify it where the sphere sits near the ocean, a swimming pool, or where de-icing salt is used.

Q235 carbon steel

The material for fire pit balls and ironwork. Spins to 16mm. Left raw it develops a rust patina, and it takes many decades for rust to affect the ball.

H62 brass alloy

A high reflective gold accent for jewellery, lampshades, sculpture, church roofs and door knockers. Both stamping and water pressuring give an invisible seam.

A6061 aluminium alloy

The light option for suspended and hand installed work. Seams are visible, ground burr free. Takes spray painting and powder coating.

Surface finishes

Finish	Max diameter	Fingerprint free	Outdoor
Mirror polished	ø3500mm	No	Yes
Brushed and mill finish	ø3500mm	Better than mirror	Yes
Sandblasting and etching	ø3500mm	Yes	Yes
Vacuum metalizing (PVD)	ø500mm	Yes	Display and interior
Titanium electroplating	ø2200mm	Yes	Yes
Spray painting	ø3500mm	No	Yes

Finish	Max diameter	Fingerprint free	Outdoor
Powder coating	ø700mm stamped parts	No	Yes
Rust patina, carbon steel	ø3500mm	n/a	Yes, intentional

Sequence

Finishing always happens after forming, welding, cutting and grinding, never before. On a pattern ball or a cut sphere, the surface is finished once the cutting is done, which is what keeps the pattern edges clean.

Quotation

Request a quotation on WhatsApp +86 181 2370 4365 or by email at tinazhou0755@outlook.com. Send diameter, wall thickness, material, finish, quantity and delivery country.