

HYDRAULIC CYLINDER TUBE – ST 52.3 – SSID

Hydraulic Cylinder Tube ST 52.3 with excellent machinability and weldability. Supplied electro-welded and drawn (BK), with yield strength over 500 MPa. The special smooth inside diameter (SSID) is ready to use and is oiled with the tube ends capped for protection.

Typical Applications:

Hydraulic and pneumatic cylinders for mining, agricultural and farm machinery, hoists, automotive and transport lifting equipment, waste disposal transport, food processing equipment, mechanical tools and equipment, compressors and earth moving equipment etc.

Lengths: 5 – 7 metres random

Straightness: 1/1000

Welding: by any of the standard welding processes.

Welding procedure:

Low carbon electrodes similar to material spec are recommended. Pre-heat or post-heat not required.

Welding details for guidance only

Typical Chemical Analysis

Carbon	0.20%
Silicon	0.50%
Manganese	1.50%
Phosphorus	0.050% max
Sulphur	0.050% max

Related specifications:

DIN 2393 & 2394	1.0570 ST 52.3
EN10025-1994	1.0570 S355
ASTM A513	Type 6 (SSID)

Mechanical Requirements: BK

Yield Strength	500 Mpa Min
Tensile Strength	650 Mpa Min
Elongation	7% min

Tolerances:

Outside Diameter: Din 2393

Wall Thickness: + / - 3 pct

Inside Diameter: ISO H9 – H11

Roughness: 0.6 microns RA max

Machinability:

Excellent machinability in the BK (as supplied) condition