

HYDRAULIC CYLINDER TUBES

Cold drawn Seamless (CDS)

ASTM A 519 SAE 1020/1026

RELATED SPECIFICATIONS:

USA	ASTM A 519 SAE 1020 / 1026
Great Britain	BS 070 M20 / BS 080 A15

CHEMICAL ANALYSIS:

ASTM A 519 SAE 1020

	C %	Mn %	P %	S %
Min.	0.15	0.60	-	-
Max.	0.25	0.90	0.04	0.05

ASTM A 519 SAE 1026

	C %	Mn %	P %	S %
Min.	0.22	0.60	-	-
Max.	0.28	0.90	0.04	0.05

DESCRIPTION:

Cold Drawn Seamless Tube is produced from solid billet which is pierced, turned and drawn. CDS is produced to SAE 1026 for improved machinability on sizes up to and including 9.5" OD over 9.5" produced to SAE 1020.

APPLICATIONS:

It is suitable for general purpose applications such as rollers, shafts, hydraulic cylinders & hollow machined parts.

TYPICAL MECHANICAL PROPERTIES:

ASTM A 519 SAE 1020

Yield Strength ksi	U.T.S ksi	Elongation % in 2"	Rockwell Hardness
60	80	15	RB88

ASTM A 519 SAE 1026

Yield Strength ksi	U.T.S ksi	Elongation % in 2"	Rockwell Hardness
87	87	10	RB89

WE
LDI
NG:
CD

S has excellent weldability.

MACHINING:

SAE 1020 has excellent machinability and SAE 1026 has good machinability.

CORROSION RESISTANCE:

CDS has poor corrosion resistance.

SIZES AVAILABLE:

38.1x34.mm – 254x279.4mm

COLOUR CODE:



Unhoned Blue



Honed Blue and white