

# 40

**Steel:** 080M40

**Corresponding Steel Grade and Chemical Composition:**

Chemical Composition(%)

Standard/Steel Grade	C	Si	Mn	Cr	Mo	Ni	P	S
GB/T 699 40	0.37~0.44	0.17~0.37	0.50~0.80	≤0.25	-	≤0.30	≤0.035	≤0.035
ASTM A29 1040	0.37~0.44	0.15~0.35	0.60~0.90	-	-	-	≤0.035	≤0.040
DIN EN10083 C40(1.0511)	0.37~0.44	≤0.40	0.50~0.80	≤0.40	≤0.10	≤0.40	≤0.035	≤0.040
BS970-1 080M40	0.36~0.44	0.10~0.40	0.60~1.00	≤0.30	≤0.15	≤0.40	≤0.035	≤0.040

**Brief Introduction:** A medium carbon steel offering moderate tensile strengths. The material is capable of through hardening by quenching and tempering but is more common supplied in the untreated or normalized condition. Machinability similar to that of mild steel can be expected, however weldability is reduced. Typically applied in axles, spindles, studs and many automotive and general engineering components.

**Shape & Dimension:** Φ 200-1200mm

**Delivery Condition:** EAF+LF+VD, Rolled/Forged,Normalized,Black/Turned

**Note:**

**Steel:** 070M20**Corresponding Steel Grade and Chemical Composition:**

Standard/Steel Grade		Chemical Composition(%)								
		C	Si	Mn	Cr	Mo	Ni	P	S	
GB/T 699	20	0.17~0.23	0.17~0.37	0.35~0.65	≤0.25	-	≤0.30	≤0.035	≤0.035	
ASTM A29	1020	0.18~0.23	0.15~0.35	0.30~0.60	-	-	-	≤0.035	≤0.040	
DIN EN10083	C22(1.0402)	0.17~0.24	≤0.40	0.40~0.70	≤0.40	≤0.10	≤0.40	≤0.035	≤0.040	
BS970-1	070M20	0.16~0.24	0.10~0.40	0.50~0.90	≤0.30	≤0.15	≤0.40	≤0.035	≤0.040	

**Brief Introduction:**

A general purpose mild steel for welded or riveted structures, forgings, machined parts, hot pressing, etc. This steel will only withstand a moderate amount of cold deformation. This material only offers low strength, but good machinability. Typically applied in shafts, staybolts, brake, pedal levers, gear selectors, clutch and brake housing, motor car wheel hubs, various motorcycle and scooter lug stampings, valve gate and body forgings, wagon buffers, commutator screws, cage suspensions, general haulage gear.

**Shape & Dimension:** Φ 200-1200mm**Delivery Condition:** EAF+LF+VD, Rolled/Forged,Normalized,Black/Turned**Note:**

## Q345D

**Steel:** S355J2G3

**Corresponding Steel Grade and Chemical Composition:**

Standard/Steel Grade		Chemical Composition(%)						
		C	Si	Mn	S	P	Cr+Mo+	
GB/T 1591	Q345D	≤0.18	≤0.55	1.00~1.60	≤0.030	≤0.030	-	
DIN EN10025	S355J2G3	< 0.22	≤0.55	≤1.60	≤0.035	≤0.035	≤0.48	

**Brief Introduction:**

S355J2G3 is a low carbon, high tensile strength structural steel which can be readily welded to other weldable steel. With its low carbon equivalent, it possesses good cold-forming properties. It is supplied in normalized or controlled rolling condition. Application in freight cars, transmission towers, dump trucks, cranes, trailers, bull dozers, excavators, forestry machines, railway wagons, dolphins, penstocks, pipes, highway bridges, building structures, oil platforms, offshore structures, shipbuilding, power plant, palm oil equipments and machineries, fans, pumps, lifting equipments and port equipments.

**Shape & Dimension:** Φ 200-1200mm

**Delivery Condition:** EAF+LF+VD, Rolled/Forged,Normalized,Black/Turned

**Note:**