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Dunswart
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826M40 (EN26)

BS970 Pt 1, 1983. As Rolled/Forged or Heat Treated Steel.
Condition U or V 2 1/2 % Nickel Chrome Moly Steel

Typical Uses

For similar uses as 817M40 (En24) but for higher tensile applications. Also for use in mining applications for winder equipment parts, brake pins, tie rods, tie rod ends, turn buckles etc. but then supplied heat treated to BS2772 pt 2 grade 826M31 for mechanical properties.

BS970 of 1955 EN26	
BS970 Pt 1 of 1983 W.Stoff (German)	826M40 1.6745
Carbon	0.36 – 0.44
Silicon	0.10 – 0.35
Manganese	0.45 – 0.70
Nickel	2.30 – 2.80
Chromium	0.50 – 0.80
Molybdenum	0.45 – 0.65
Sulphur	0.040 max
Phosphorus	0.035 max

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MACSTEEL SPECIAL STEELS

Properties Minima unless stated

Heat Treatment	Tensile Strength Rm MPa	Yield Stress Re MPa	Rp 0.2 MPa	A min on 5.65 √ So	Impact		Hardness HB	Limiting Ruling Section mm
					Izod Ft.lb	KCV J		
U	925/1075	740	725	12	25	28	269/331	250
	925/1075	755	740	12	35	42	269/331	150
V	1000/1150	835	820	12	25	28	293/352	250
	1000/1150	850	835	12	35	42	293/352	150
W	1075/1225	925	910	11	20	22	311/375	250
	1075/1225	940	925	11	30	35	311/375	150
X	1150/1300	1020	1005	10	25	28	341/401	150
Y	1225/1375	1095	1080	10	25	28	363/429	150
Z	1550	1235	1125	07	10	11	444	100

Size Range

Diameter in mm	Theoretical Mass Kg/m	Diameter in mm	Theoretical Mass Kg/m
40	9.864	203	254.053
50	15.413	210	271.877
60	22.194	220	298.386
70	30.209	230	326.129
80	39.456	240	355.104
90	49.937	250	385.313
103	65.404	260	416.754
108	71.909	270	449.429
120	88.776	280	483.336
125	96.328	305	573.499
130	104.189	320	631.296
140	120.834	330	671.369
150	138.713	350	755.213
160	157.824	360	798.984
170	178.169	370	843.989
180	199.746	400	989.400
185	210.997	415	1061.767
190	222.557		

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N.B.

1. Actual mass will vary from theoretical mass due to manufacturing tolerances.
2. Sizes above limiting ruling section will be heat treated to a hardness only, with no guarantee on mechanical properties.
3. A 6 % allowance should always be made for removal of surface defects during machining.
4. For sizes not listed please contact our sales department - we may be able to assist you.
5. Condition "W X Y and Z" this material is often ordered in the annealed condition for machining and subsequent heat treatment to achieve these properties.

Although every care has been taken in the compilation of this brochure, which is for information only, no responsibility can be accepted for inaccuracies