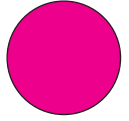


**MAGENTA:**  
Cold drawn  
bright bar



This product is used for high speed production and/or repetition work where the main requirements are rapid machining and maximum tool life. Cutting speeds on this grade are considerably higher than those of mild steels as well as the Sulphur free cutting steel grades, together with a far more superior surface finish. The lead addition however further impairs the mechanical properties and fabrication characteristics compared to the re-sulphurised free cutting steel grades such as forge-ability, formability and weldability. Not suitable for hot dip galvanizing.

**Product application**

Leaded Free Cutting can be used for bushes, pins, shafts, bolts, nuts, studs, couplings & various machined components where low tensile strength material is required.

**Chemical composition limits**

%	C	Si	Mn	S	P	PB
Min	-	-	0.85	0.26	0.04	0.15
Max	0.15	0.10	1.15	0.35	0.09	0.35

**Heat treatment**

Generally this steel grade is not heat treated.

**Condition of Delivery**

- Cold drawn condition only.
- Straightness shall not exceed 1mm over any 1 000mm.
- Length tolerance is -0mm, + 100mm.

**Size range for round bar offered**

Max	Nominal diameter	Min	Calculated weight
(mm)	(mm)	(mm)	(kg/m)
10	10	9.925	0.617
11	11	10.925	0.746
12	12	11.925	0.888
13	13	12.925	1.042
14	14	13.925	1.208
15	15	14.925	1.387
16	16	15.925	1.578
18	18	17.925	1.997
19	19	18.925	2.226
20	20	18.925	2.466
22	22	21.925	2.984
24	24	23.925	3.551
25	25	24.925	3.853
28	28	27.925	4.833
30	30	29.925	5.549

**Size range for hexagonal bar offered**

Max	Nominal diameter	Min	Calculated weight
(mm)	(mm)	(mm)	(kg/m)
10	10	9.91	0.680
13	13	12.91	1.149
17	17	16.91	1.965
19	19	18.89	2.455
22	22	21.89	3.291
24	24	23.89	3.917
25	25	24.89	4.250
27	27	26.89	4.957
30	30	29.89	6.120
32	32	31.87	6.963
36	36	35.87	8.813
38	38	37.87	9.819
41	41	40.87	11.431
46	46	45.87	14.389
50	50	49.87	17.000
55	55	54.87	20.570