


MACSTEEL - SPECIAL STEELS CATALOGUE



Lea Road
Dunswart
P O Box 6130, Dunswart 1508
South Africa

Tel: (011) 897-5000
Fax: (011) 918-1125
Email: mac.dun@mactrading.co.za
Web: www.macsteel.co.za



AISI / SAE 12L14
Bright Free Cutting Steel
(Lead Bearing)
Equivalent Specifications: 95MnPb28

Typical Uses

For high speed production or repetition work (e.g. manufacture of bushes, pins, bolts, nuts, studs, and couplings) where the major requirements are rapid machining and maximum tool life. Cutting speeds on this quality are considerably higher than those of mild steels and the resulphurized steels and components are produced with far superior surface finishes. The addition of lead even further impairs the mechanical properties and fabrication characteristics than the resulphurized steels such as forgeability, formability and weldability.

AISI/SAE 12L14	
Carbon	0.15 - max
Silicon	-
Manganese	0.85 – 1.15
Lead	0.15 – 0.35
Sulphur	0.26 – 0.35
Phosphorus	0.04 – 0.09

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Size Range			
Diameter in mm	Theoretical Mass Kg/m	Hexagon mm A/Flats	Theoretical Mass Kg/m
5	0.154	11	0.823
6	0.222	12	0.979
7	0.302	13	1.149
8	0.395	14	1.333
10	0.617	16	1.741
11	0.746	17	1.965
12	0.888	18	2.203
13	1.042	19	2.455
14	1.208	20	2.720
15	1.387	22	3.291
16	1.578	24	3.917
17	1.782	27	4.957
18	1.997	28	5.331
19	2.226	30	6.120
20	2.466	32	6.963
22	2.984	35	8.330
24	3.551	36	8.813
25	3.853	38	9.819
28	4.833	41	11.431
30	5.549	46	14.389
32	6.313	50	17.000
35	7.552	55	20.570
36	7.990		
38	8.902		
40	9.864		
42	10.875		
45	12.484		
48	14.204		
50	15.413		

Properties minima unless stated

Sold to chemical Analysis only.

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