

# BRIGHT MILD STEEL/FREE-CUTTING LEADED STEEL – 12L14

## RELATED SPECIFICATIONS:

Australia	AS 1443 – 2004 12L14
Germany	W.Nr1.0715 9SMnPb28
Great Britain	BS970 – Part 1 – 1972 230M07
	BS970 – 1955 EN1A
USA	AISI 12L13 and 12L15
	SAE 12L13 and 12L15
	UNS G 12144
Japan	JIS G 4804 SUM22L

## DESCRIPTION:

High speed machining is achieved due to the addition of Lead (PB) and is most suitable for repetitive engineering applications. A mild carbon steel bar containing maximum 0.15% carbon with low tensile and low hardenability. Usually used as supplied in the cold drawn or turned & polished condition. Bright round bar up to 63.5mm dia. is cold drawn. Bright round bars 63.5mm – 100mm diameter are cold drawn or smooth turned & polished. Over 100mm are all smooth turned and polished. All square, flat and hex bars are cold drawn. Typical Tensile strength range min. is 370 – 480 Mpa.

## APPLICATIONS:

Suitable for hydraulic fittings, concrete anchors etc. Not recommended for applications involving bending due to low ductility. Welding of this grade is a health hazard due to fumes forming during the welding process.

## CHEMICAL ANALYSIS:

	C %	Si %	Mn %	P %	S %	Pb %
Min.	-	-	0.80	0.04	0.25	0.15
Max.	0.15	0.10	1.20	0.09	0.35	0.35

## SIZES AVAILABLE:

Round: (mm)

6.35	7.93	8	9.52	10	12	12.7	14.28	15	15.87	16	18	19.05	20	22
22.22	24	25	25.4	27	28.57	30	31.75	34.92	35	36	37	38.1	39	40
41.27	42	44.45	45	46	47.62	50	50.8	53.9	55	57.15	60	60.3	63.5	65
66.67	69.85	70	75	76.2	82.55	88.9	90	100	101.6	110	114.3	120	127	152.4

Hexagon: (mm - AF)

12.7	17.46	19	19.05	22.22	25.4	27	28.5	31.7	38.1	44.45	50.8	55	63.5	65
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Square: (mm)

6.35	9.52	12.7	15.87	19.05	25	25.4	31.75	38.1	50	50.8	63.5	76.2	88.9	101.6
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COLOUR CODE: VIOLET END

