



# Special Contract Rules for Lead

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### BS EN 12659:1999 – Lead and Lead Alloys – Lead

Element	Composition in %		
Indicative Lead Content	99.970 Material No. PB970R	99.985 Material No. PB985R	99.990 Material No. PB990R
Ag	0.0050 maximum	0.0025 maximum	0.0015 maximum
As	0.0010 maximum	0.0005 maximum	0.0005 maximum
Bi	0.030 maximum	0.0150 maximum	0.0100 maximum
Cd	0.0010 maximum	0.0002 maximum	0.0002 maximum
Cu	0.0030 maximum	0.0010 maximum	0.0005 maximum
Ni	0.0010 maximum	0.0005 maximum	0.0002 maximum
Sb	0.0010 maximum	0.0005 maximum	0.0005 maximum
Sn	0.0010 maximum	0.0005 maximum	0.0005 maximum
Zn	0.0005 maximum	0.0002 maximum	0.0002 maximum
Total	0.030	0.015	0.010

*Note: Indicative Lead Content: 100 minus total of impurities*



## GB/T 469-2013 – Lead Ingots

Impurity (no more than)	Chemical Composition (%)			
Pb no less than	99.970 Code No. Pb99.970	99.985 Code No. Pb99.985	99.990 Code No. Pb99.990	99.994 Code No. Pb99.994
Ag	0.0050 maximum	0.0025 maximum	0.0015 maximum	0.0008 maximum
As	0.0010 maximum	0.0005 maximum	0.0005 maximum	0.0005 maximum
Bi	0.030 maximum	0.015 maximum	0.010 maximum	0.004 maximum
Cd	0.0010 maximum	0.0002 maximum	0.0002 maximum	0.0002 maximum
Cu	0.003 maximum	0.001 maximum	0.001 maximum	0.001 maximum
Fe	0.0020 maximum	0.0010 maximum	0.0010 maximum	0.0005 maximum
Ni	0.0010 maximum	0.0005 maximum	0.0002 maximum	0.0002 maximum
Sb	0.0010 maximum	0.0008 maximum	0.0008 maximum	0.0007 maximum
Sn	0.0010 maximum	0.0005 maximum	0.0005 maximum	0.0005 maximum
Zn	0.0005 maximum	0.0004 maximum	0.0004 maximum	0.0004 maximum
Total	0.030 maximum	0.015 maximum	0.010 maximum	0.006 maximum



## ASTM B29-19 – Standard Specification for Refined Lead

Element	Composition (Weight Percent)	
Lead (min) by difference	99.97 UNS No. L50021	99.995 UNS No. L50006
Grade	Refined Pure Lead	Low Bismuth Low Silver Pure Lead
Ag	0.0075 maximum	0.0010 maximum
Al	0.0005 maximum	_____
As	0.0005 maximum	0.0005 maximum
Bi	0.025 maximum	0.0015 maximum
Cd	0.0005 maximum	_____
Cu	0.0010 maximum	0.0010 maximum
Fe	0.001 maximum	0.0002 maximum
Ni	0.0002 maximum	0.0002 maximum
S	0.001 maximum	_____
Sb	0.0005 maximum	0.0005 maximum
Se	0.0005 maximum	_____
Sn	0.0005 maximum	0.0005 maximum
Te	0.0002 maximum	0.0001 maximum
Zn	0.001 maximum	0.0005 maximum

