



Sn43Pb43Bi14 - "RL3"

"RL3" - A high quality, low melting point tertiary, alloy for mechanical or electrical applications used in soldering oxide free surfaces of tin and lead. Benefits include increased joint strength and reliable soldered joints.

Chemical Characteristics

2.1 Tin-lead tertiary alloy:

Amount of Tin:	Sn43 +/- 0.5%
Amount of Lead:	Pb43 +/- 0.5%
Amount of Bismuth:	Bi14 +/- 0.2%

2.2 Tin of first smelting purity of 99.90%

2.3 Chart of typical maximum impurities:

Sb	Cu	Ag	Cd
0.05%	0.01%	0.005%	0.002%

Fe	Zn	Al	As	Others
0.02%	0.001%	0.001%	0.01%	0.05%

Physical Characteristics, standard:

*ALLOY	
Melting point	Solidus 138C. Liquidus 150C
Specific weight	9.0 g/cm ³
Wire diameter	From 0.6 mm to 5 mm

*FLUX: RL3

Rosin : Activated
Amine : 0.5%
Acidity index : 165
Good soldering on Copper
Excellent on Tin/Lead
Low splattering
Excellent wetting speed

Incorporated flux: Rosin Base: RL:
NF 90550, J-Std-004 Class ROM1
DIN 8511 – FSW 26, EN ISO 9454 – 1.1.2

Application Notes

Working temperature: 175°C - 250°C

Other Characteristics

Packaging: 250g, 500g and 1kg reels (Others: consult MBO)

Quality assurance: A certificate of conformity can be issued with each batch if requested at the time of ordering.

Identification: Boxes and reels carry information labels and lot batch numbers.