Updated: 01/02/2010 N° 01	SPECIFICATION				
Ref.: wire	<u>Solder wire</u>				
Created: 03/05/01	Alloy "Sn5Pb93.5Ag1.5"				
	Incorporated flux: CR2				



1 - GENERAL CHARACTERISTICS:

High temperature, (HMP) solders wire, with incorporated flux for soldering equipment in electronics. Conform to standards: NF 90550 – DIN 1707-8511 – QQS 571E – MIL.F.142560.

ADDITIONAL INFORMATION:

Our manufacturing processes have been subjected to FMECA analysis (equivalent of AMDEC in Europe).

2 - CHEMICAL CHARACTERISTICS:

 2.1 Amount of Tin
 : $5\% \pm 0.5\%$

 2.2 Amount of Lead
 : $93.5\% \pm 0.5\%$

 2.3 Amount of Silver
 : $1.4\% \ à 1.6\%$

2.4 Tin-lead-silver double refined at first melting, with an overall purity of 99.6 %.

2.5 Chart of maximum impurities:

Cu	Cd	Sb	Bi	Fe	Zn	Al	As	Others
0.05%	0.002%	0.05%	0.01%	0.02%	0.001%	0.001%	0.01%	0.05%

2.5 Available types of incorporated flux:

Rosin Halide Free: EL - R45 - RSNB
Rosin Activated: RD - RDV- CR
Hydro soluble: SR - HC2

Rosin Mildly Activated: RL - CT2
Synthetic Halide Free: S45V
Others: please consult us.

2.6 Amount of flux incorporated: BS441 Grades 1, 2 or 3

BS441 Flux Grade	Mass of flux					
	Minimum	Nominal	Maximum			
1	1.0 %	1.3 %	1.5 %			
2	1.6 %	2.2 %	2.6 %			
3	2.7 %	3.3 %	3.9 %			

3- PHYSICAL CHARACTERISTICS:

Alloy: Sn5Pb93.5Ag1.5

3.1 Melting point : Solidus @296°C to liquidus @ 301°C

3.2 Specific weight : 11.04 g/cm³

3.3 Wire diameter : From 0.5 mm to 6 mm

3.4 Working temperature $:350-460\ ^{\circ}C$

*FLUX CR

Pine Rosin Amine 1%

Acidity index: 220

Chlorine equivalent: 1.4% RA – BS 441 Grade 2

4- PACKAGING:

4.1 Supplied on spools : 500g (Black DIN winding on request)

4.2 Packed in cartons of : 12 / 24kg.

4.3 Identification : Boxes and spools carry product information labels.

4.4 Quality assurance : A certificate of conformity can be issued for each manufactured batch if

requested at the time of ordering.

4.5 Storage : in original packaging at room temperture for 12 months.

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