



Product Name:

Omega Rosin Free Cored Solder Wire
Order Code: MC1

Manufactured By:

Warton Metals Limited
Grove Mill Commerce Street
Haslingden Lancashire
ENGLAND

Tel: +44 (0)1706 218888

Fax : +44 (0)1706 221188

Description

Omega Rosin Free Cored Solder Wire is a flux 'core' contained in Warton High Purity Cored Solder Wire. Omega contains no rosin (colophony), resin acids, pine oil or other naturally occurring derivatives from pine trees and has been specifically designed to reduce the number of world-wide cases of industrial asthma, related to rosin usage within a cored solder wire. Omega provides excellent wetting whilst leaving a minimal no clean, clear residue. Cleaning by batch or in-line processes is not suitable, however, if residues need to be removed use Warton Total Clean 130 cleaner.

Omega Flux Type & Specification

Omega is rosin free and formulated without the use of halides and is supplied as a 3%, 2% and 1% flux content wire.

Omega is rated as an M-OR-L0 flux type in accordance with J-STD-004

Omega is manufactured using only the 'Highest Purity Virgin Materials' this being part of Warton's simple philosophy that the best raw materials lead to the best finished products.

Typical batch analysis: High Purity Tin

Sn	Sb	Pb	Cu	Zn
99.95	0.009	0.002	0.0002	0.0001
Fe	As	Ag	Bi	In
0.002	0.002	0.0001	0.0001	0.0003

These consistent high standards apply to all **Warton High Purity Solder Alloys**.

Lead Free Solder Alloys

In response to increasing environmental awareness and the drive for new legislation (forcing greater end of product life responsibility), Warton Metals offer a complete range of 'lead free' alloys to suit all applications. See table below.

Omega is available in leaded and lead free alloys.

Lead free alloys include

Warton Part No	Sn % Tin	Cu % Copper	Ag% Silver	Sb % Antimony	Melting Temperature
99C	Rem	.45 - .9	-	-	227°C
96S	Rem	-	3.5-4.0	-	221°C
TSC	95.5-96	0.5-1	3.3-4	-	217°C
SAC3	Rem	0.5-0.7	2.8-3.2	-	217°C

The table above shows the elements included in each alloy.

Wire gauge (Diameter)

The wire gauge (diameter) for **Warton Omega** is represented as SWG. (Standard wire gauge) The equivalent imperial and metric values are shown below.

Swg	10	11	12	13	14
mm	3.25	2.95	2.64	2.34	2.03
Inch	0.128	0.116	0.104	0.092	0.080

Swg	16	18	20	21	22
mm	1.63	1.22	0.914	0.813	0.711
Inch	0.064	0.04	0.036	0.032	0.028

Swg	24	26	28	30	32
mm	0.599	0.457	0.376	0.315	0.274
Inch	0.022	0.018	0.014	0.012	0.010

Packaging

Warton Rosin Free Cored Solder Wire is supplied on 0.25Kg, 0.5Kg, 2.5Kg, 3Kg, 5Kg, 10Kg, 15Kg and 25Kg reels.

Samples available on request.