

PRODUCT DATA SHEET

CW-901

Acid-Cored Wire

Introduction

CW-901 Acid-Cored Wire contains a chlorinated, strong acid flux, which is active enough for most industrial soldering applications. It is highly active to accomplish rapid soldering at controlled conditions for most metals, including copper, brass, bronze, nickel alloys, mild steel, and stainless steel.

Features

- Versatile acid-type inorganic flux for use in industrial applications
- Excellent for use with all metals, except aluminum and magnesium
- Water rinse necessary to remove flux residue after soldering
- Not suitable for electrical or electronics applications



Residue Removal

Due to the corrosive nature of this flux residue after soldering, Indium Corporation's acid-cored solder requires thorough removal of the flux residue. Complete residue removal can be accomplished by a chemical neutralizer rinse followed by several water washings. A first rinse in water with the addition of 2–3% HCl helps remove flux residues and facilitates better second- and third-stage cleaning. All flux residues should be thoroughly removed to prevent corrosion.

Shelf Life

	Warranted	Practical*
Tin-Lead Alloys	3 years from DOM	Indefinite
Lead-Free Alloys	3 years from DOM	Indefinite
>85% High-Lead	2 years from DOM	Indefinite

*When stored at less than 40°C and less than 80% RH

When stored in a cool, dry environment, there is no reason that Indium Corporation's **CW-901** cannot retain its intended soldering properties for many years. The main causes of degraded cored wire reflow performance are the buildup of a thick oxide layer on the surface of the wire, caused by prolonged exposure to higher than normal temperature and humidity conditions, or the buildup of lead carbonate on high-lead (>85%) alloy-cored wire shipped or stored under very high humidity conditions.

Technical and Customer Support

Indium Corporation's internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Materials Science, Technical Support Engineers provide expert advice in solder properties, alloy compatibility and selection of solder preforms, wire, ribbon, and paste. Indium Corporation's Technical Support Engineers provide rapid response to all technical inquiries.

Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>

Commonly Available Diameters and Packaging

Metric Units				English Units			
Diameter	Spool Weight	SAC305 Length	63Sn/37Pb Length	Diameter	Spool Weight	SAC305 Length	63Sn/37Pb Length
0.25mm ± 0.03mm	113g	334m	294m	0.010" ± 0.001"	1/4lb	1,097ft	966ft
0.38mm ± 0.05mm	113g	148m	131m	0.015" ± 0.002"	1/4lb	487ft	429ft
0.51mm ± 0.05mm	454g	334m	294m	0.020" ± 0.002"	1lb	1,097ft	966ft
0.64mm ± 0.05mm	454g	214m	188m	0.025" ± 0.002"	1lb	702ft	618ft
0.81mm ± 0.05mm	454g	130m	115m	0.032" ± 0.002"	1lb	428ft	377ft
1.02mm ± 0.05mm	454g	84m	74m	0.040" ± 0.002"	1lb	274ft	242ft
1.57mm ± 0.05mm	454g	35m	31m	0.062" ± 0.002"	1lb	114ft	101ft
Standard Flux Percentage							
3%				2.7–3.2%			

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All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

From One Engineer To Another®

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