


# IRS 2012-1 Low Density Light Weight Epoxy Potting Compound



## Description

Also available to buy online at [intertronics](https://www.intertronics.com)  
SHOP 

**IRS 2012-1** is a very low density, light weight epoxy resin system with excellent physical properties. It can be used in systems where weight is critical (e.g. auto sport, motor racing, aerospace). **IRS 2012-1** also has good transparency to RF signals or radio signals.

## Features & Benefits

- Low density
- Contains advanced light weight fillers
- Excellent electrical properties
- Chemical resistance to solvents, oils, fuels, acids, bases and hydraulic fluids
- Good mechanical properties
- Low cure shrinkage
- Has uses in radio frequency applications, RF transparent
- Available in easy-to-use twinpacks

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## Specifications

**Part number change:** as of version 6.0, October 2021, the part number of this product changed from IRS 2012 to IRS 2012-1. This is due to an unavoidable change in a formulation component. This change does not affect the product data-sheet specifications. The new formulation has passed internal testing and is deemed to be equivalent.

Typical properties		
Mix ratio	100:45 resin to hardener by volume 70:30 resin to hardener by weight	
Mixed viscosity	11,000 cps	
Pot life (100g mix)	1 hour @ 23°C	
Cure schedule	Bondline temperature: 23°C 60°C	Time: 24 hours 4 hours

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Typical properties		
Density	0.6 g/cm <sup>3</sup>	
Shore hardness	D40	
Tensile strength	4 MPa	
Crush resistance	50 MPa (estimated)	
Operating temperature	-55°C to 150°C 200°C short term	
Chemical resistance	Particularly resistant to fuels, lubricating oils, acids and bases. Also resistant to hydraulic fluids, solvents	
Dielectric strength	15kV/mm	
Volume resistivity	10 <sup>11</sup> ohm-cm	
Colour	Black	
Shelf life	12 months	

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## Safety Data Sheets

For the latest SDS for this product, please e-mail [msds@intertronics.co.uk](mailto:msds@intertronics.co.uk)

## Other Information

See how one customer got results from IRS 2012-1 for an electronics potting application in this [Case Study](#):

Application Insight  
**TYRE PRESSURE  
SENSOR POTTING**  
Potting of vehicle tyre pressure  
monitoring sensors

IRS 2012-1



### [Application Insight – Tyre Pressure Sensor Potting](#)

Potting vehicle tyre pressure monitoring sensors using IRS 2012-1.

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## Ordering Information

IRS 2012-1 is available in twinpacks or in bulk.







The twinpack sachet is a clear film sachet, with the resin and hardener separated by a removable clip and rail divider. [Click here for twinpack mixing instructions.](#)

Part number	Description
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# IRS 2012-1 Low Density Light Weight Epoxy Potting Compound



<p>IRS2012-1-167G</p>  	<p>Low Density Epoxy Potting Compound - 100 gram twinpack (approx 167 ml)</p>
<p>IRS2012-1-300G</p>  	<p>Low Density Epoxy Potting Compound - 300 gram twinpack (approx 500 ml)</p>

For optimal results, store away from strong alkalis, oxidising materials, strong acids and amines. The conditions must prevent the formation of sparks and static electricity, and the product must avoid excessive heat for prolonged periods of time while in storage. Keep only in the original container. Keep container upright and tightly closed, in a cool, well-ventilated place. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

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Let's start by talking about your application



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[orders@intertronics.co.uk](mailto:orders@intertronics.co.uk)

- Name\*
- Company\*
- Phone\*
- Email\*
- Post code\*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

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■

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