



INNOVATIVE CLAD SOLUTIONS PVT. LTD.

Bond Creating Bonds

Joint venture between Aperam (France) & Shivalik Bimetals (India)

aperam



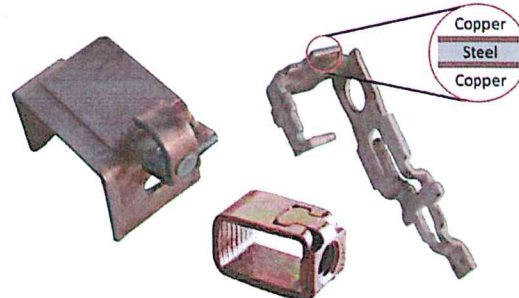
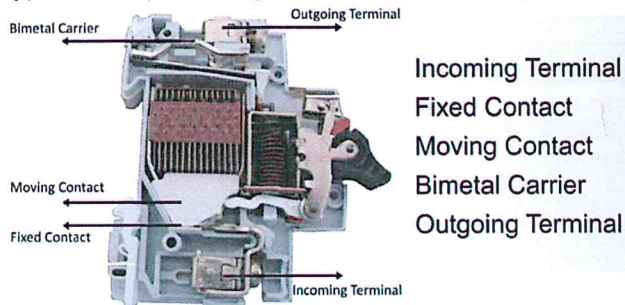


## ICS Clad product Applications in Electrical Industry

ICS is manufacturing and supplying its clad products to nearly all major electrical OEMs worldwide. Thanks to the skills and accumulated experience of its technical team, ICS has designed through close interaction with many customers unique clad solutions enabling those customers to achieve substantial savings and improved design. The reliability and distinctive quality of ICS products has allowed ICS to achieve the preferred supplier status for many customers. For many electrical applications, ICS has replaced copper, brass or phosphor bronze components by providing clad solutions that meet conductivity requirement and provide superior strength. ICS has also provided clad to serve unique functionality requirement of providing electrical connection between conductors of different metals.

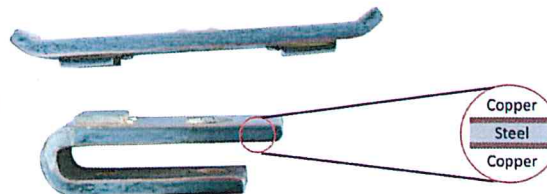
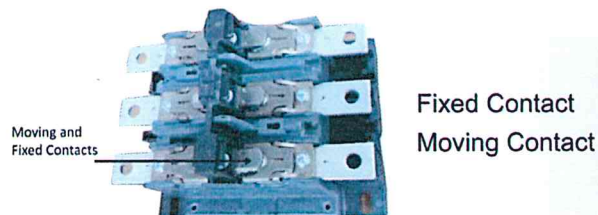
### MCB/ MCCB:

Typical Clad product by ICS: Cu/Steel/Cu in layer ratio of 15/70/15, 10/80/10, 5/90/5, 3/94/3



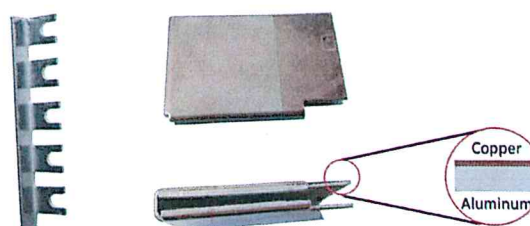
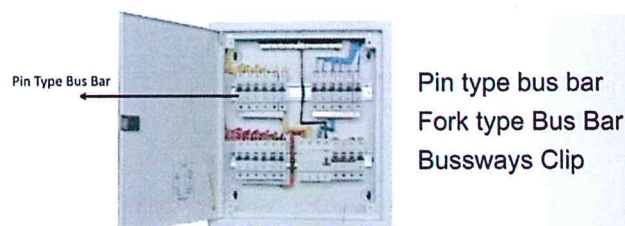
### Contactors:

Typical Clad product by ICS: Cu/Steel/Cu in layer ratio of 20/60/20, 15/70/15, 10/80/10, 40/50/10



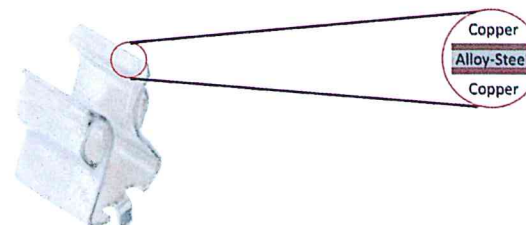
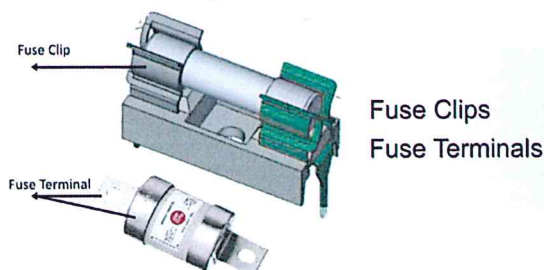
### Distribution Board / Bussways

Typical clad product by ICS : Cu/Steel/Cu 15/70/15 and Cu/Al/Cu 15/70/15, Cu/Al 15/85



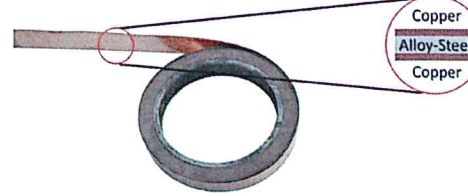
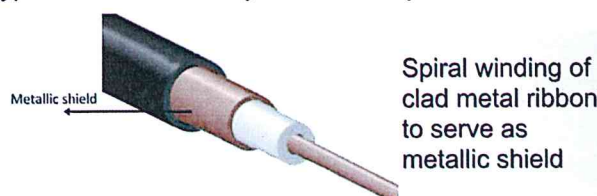
### Fuses:

Typical Clad Product by ICS: Cu/Al/Cu 15/70/15, Cu/Alloy Steel/Cu 15/70/15, Cu/Steel/Cu 15/70/15



### Cable Shielding:

Typical Clad Product by ICS: Cu/Alloy Steel/Cu 15/70/15







## About Us

- Innovative Clad Solutions (ICS), established in 2009, is a Joint venture between Aperam (France) & Shivalik Bimetals (India) with Aperam as its major shareholder. ICS is recognized globally as one of the Industry leaders providing custom clad solutions.
- Thanks to European technology, Aperam's R&D support and Indian manufacturing base, ICS can design and offer highest quality products in most competitive manner.

### What is Clad and how it benefits you:

- Clad metal is a composite of two or more dissimilar metals, metallurgically bonded together, to achieve improved functional characteristics and potentially substantial economic benefits.

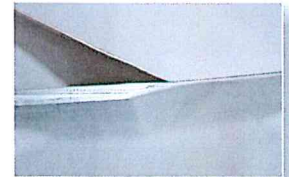


### ICS Clad combinations

- ICS clad material includes two layers, three layers, five layers and even more combinations of different metals in the thickness ranging from 0.11 mm to 4.0 mm and width ranging from 5 mm to 400 mm. ICS can manufacture clad in different layer ratios (varying from 3% and above) & with different metal combinations to fulfill customer's requirement. Below are our major clad combinations:

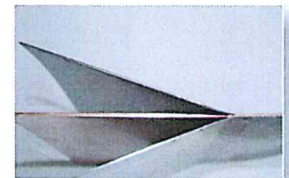
#### Two layer:

- o Copper/Aluminum
- o Copper/Stainless Steel
- o Bronze/Steel
- o Stainless Steel/Aluminum



#### Three Layer:

- o Copper/Steel/Copper
- o Copper/Stainless Steel/Copper
- o Brass/Steel/Brass
- o Bronze/Steel/Bronze
- o Copper/Aluminum/Copper
- o Nickel/Stainless Steel/Nickel
- o Steel/Copper/Steel



#### Five Layer:

- o Stainless Steel/Copper/Steel/Copper/Stainless Steel - Reg. trade Mark of ICS Innoply®
- o Stainless Steel / Copper / Stainless Steel / Copper / Stainless Steel - Reg. Trade Mark of ICS Innoply® Ultra

### Quality:

- Health & Safety of our employees, protection of the environment and adhering to highest level of quality standards are top priorities of the company. We are certified for ISO 9001, OHSAS 18001 and ISO 14001.

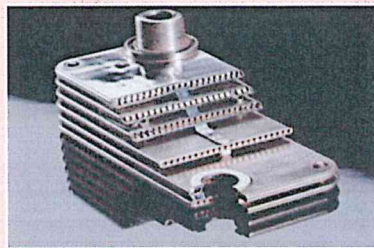




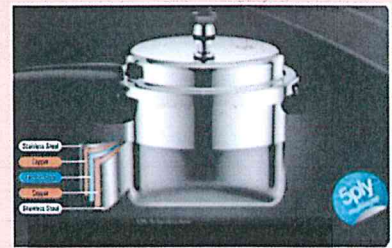
## ICS clad is also applied to many other segments



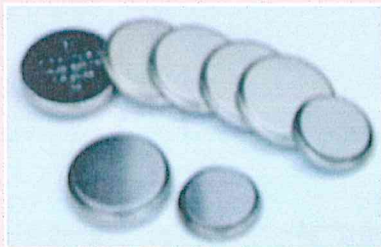
"Bearings (Bushing)"



Automotive  
(Heat exchanger/ Oil cooler)



Cookware  
(Innoplay® Pressure Cooker/Pans)



Electronics  
(Button cells)

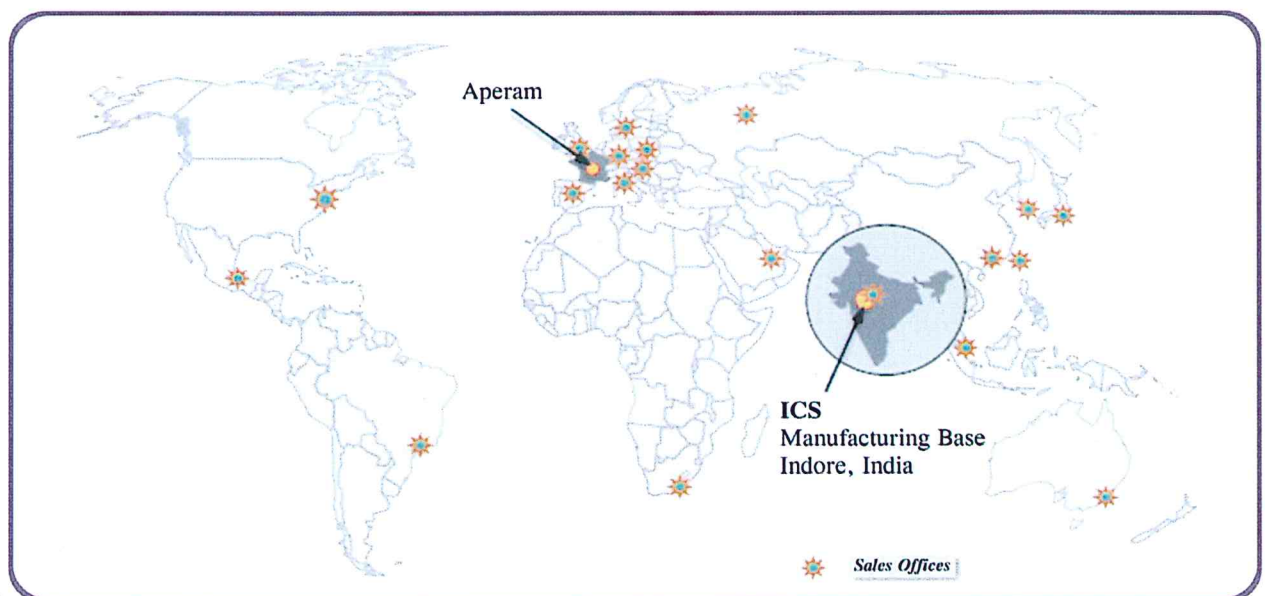


Roofing  
(Gutters, Seams)



Coinage  
(coin's core and outer ring)

## Our sales network is able to serve you globally



### Contact us

#### Factory Address:

Innovative Clad Solutions Pvt Ltd  
Plot No. M7 SEZ Phase II Miscellaneous Zone  
Pithampur Dist- Dhar.  
Madhya Pradesh- 454774, India

#### For Sales Queries

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