Integra Packaging
www.integrapackaging.com

SUPPLY CHAIN INNOVATION & PROTECTION

AUTHORISED UNDER-RAPS™ AGENT

Intercept Technology™

- OHS Friendly–No VCI's used -
- Anti Corrosive & Anti Static -
- Anti Mould & Mildew -
- Resistant to U V Radiation -
- Suitable for Re-cycling -
- Can wrap almost any size -
- Re-usable covers available -
- Cost effective –

From the heavy haul applications of the Pilbara region and the light weight narrow gauge requirements of Westrail and Queensland Rail to the design operator cabs for Thailand and Indonesia, United Group Rail utilise Intercept Shrink Film for the storage of engines until they are put into service.

Framo Subsea Pumps wrapped for Woodside Energy Ltd.
The Framo Subsea Multiphase pump is designed with high emphasis on simplicity, robustness and retrievability.

The pumps were wrapped in Intercept Shrink Film and an extra layer of 200um shrink-film for additional UV protection.

INTERCEPT Technology

Simply Better Protection

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The Intercept Technology TM a Paradigm Shift

What is the Intercept Technology™? - the easy answer would be the standard line about it combining permanent ESD protection for electronics as well as providing long term protection against corrosion, oxidation and tarnishing which not only affects the physical appearance of the metal, but also affects its electrical properties. Corrosion and static electricity are lethal weapons for metals as well as electronics. Intercept was designed to protect against both.

So a more complete explanation is required:

(1) How is it made?
Answer: A highly reactive Copper is reacted into a polymer structure. The Copper is chemically bonded into the plastic so that it cannot move or agglomerate. The Copper allows the plastic to act like a solid sheet of high surface area, highly reactive Copper – or to look at it another way; it allows a Copper sheet to act like a plastic.

(2) So can the plastic be heat-sealed?
Answer: Yes, the Intercept materials only marginally affect heat sealing.

(3) How does the Intercept Technology™ stop corrosion?
Answer: Intercept does not outgas, it acts in 4 ways to stop corrosion:

(a) **Intercept acts as a very efficient reactive barrier to gases** trying to migrate into the closed container or bag. At normal levels of Sulfur it takes Sulfur 10 years to move through 1 mil of Intercept. Similar tests were run at DuPont on Chlorine – the results showed that it took 15 years per mil of Intercept for the Chlorine gas to move through the film. The gases that cause corrosion are all reactive and they will react with and be permanently neutralized by the Intercept.

(b) **Intercept cleanses trapped air within a sealed or closed environment**, within hours the inside environment is free from corrosive gases.

(c) **Intercept protects against molds and mildews** – molds cannot grow in the direct contact with Copper.

(d) **Intercept helps protect galvanic corrosion** by being a very effective electrical shunt. Intercept “turns” on electrically at .7 volts.

The Intercept Technology TM a Paradigm Shift

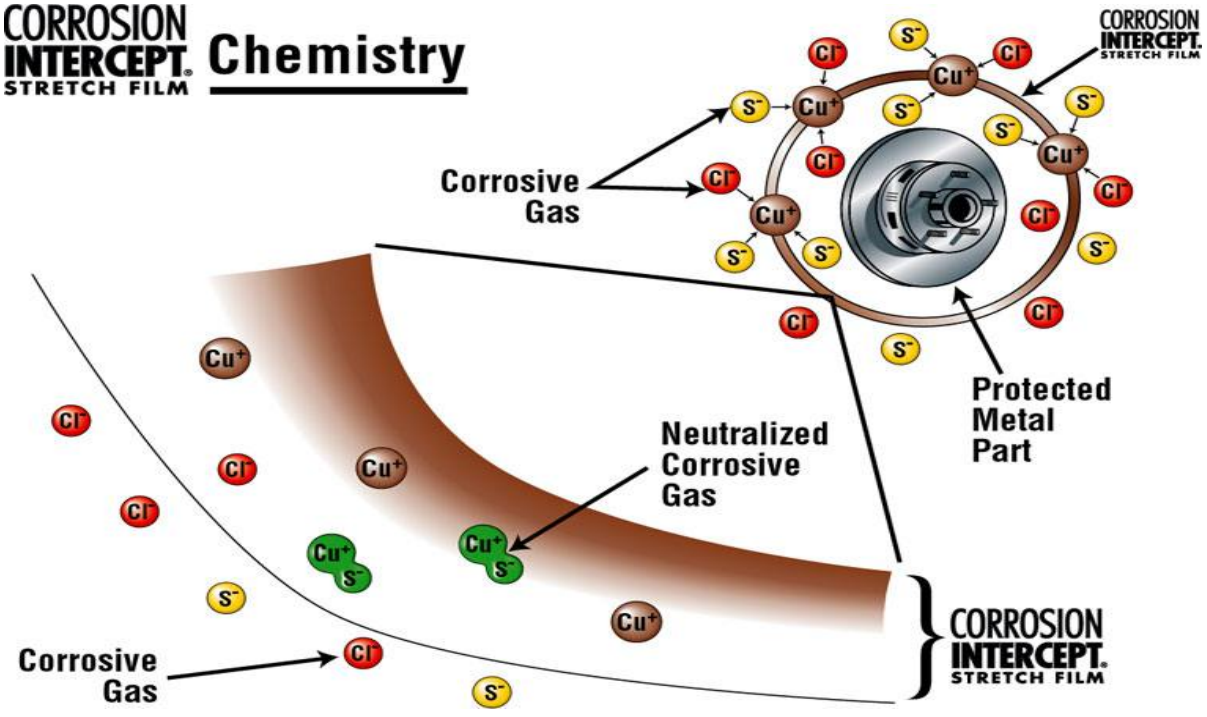
(4) How did it get its name?

Answer: Static Intercept® and Corrosion Intercept® are registered trademarks of EMI. When Lucent Technologies (then AT&T) Bell Labs created and patented the technology they referred to it as Reactive Polymer. It was a good scientific name for it, but we wanted something a bit more expressive and better from a marketing perspective, hence we called it the Intercept Technology™.

(5) So are there 2 types of Intercept, or more?

Answer: Yes, there are 2 types of Intercept. Corrosion Intercept® (Copper color)was developed first. It had great corrosion protection but not effective ESD properties. Static Intercept® (Dark Brown) has the same chemistry as Corrosion Intercept®, but it also has ESD properties – such as permanently anti-static, non-tribo charging, humidity independent, non-outgassing, etc. However a new form has also been developed, which combines non-degrading, non-changing, reusable shielding with the cleanliness, recyclability and corrosion protection of Intercept – called **RIBS**.

Intercept is registered by EMI Corp



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Product Variety

Gusseted-Bags

Stretch and Shrink Film Bags (With and without closing)

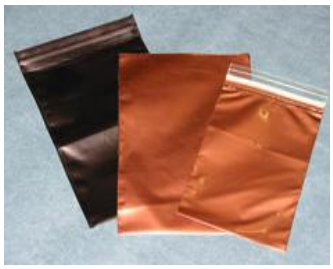
Flat-Film

MVTR- and EMI-Film Injection Molded Products

Corrugated (up to 2.94)

CD-Protection

Nylon-Bags



Laminated fabric films

Filtration Products

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