

## ***Super Dry launches oxidation free process alternative to MSD and PCB baking***



MSD handling specialist and global manufacturer of ultra low humidity drying and storage cabinets Super Dry<sup>®</sup> by Totech ([www.superdry.info](http://www.superdry.info)) has introduced a new series of oxidation free drying and storage systems for moisture sensitive devices.

Designed to exceed the formidable challenges associated with IPC J-STD-033B.1 for handling of Moisture Sensitive devices, the newest XSD Series desiccant cabinets offer a process combining ultra low humidity and mild temperatures already proven to replace vacuum oven baking of taped on reel components at a fraction of the cost. They can also dry PCBs and other moisture sensitive devices at high speeds without the oxidation and inter-metallic growth induced by high temperature baking. And, unlike vacuum or baking ovens, the XSD cabinets also offer cost effective long term and short term MSD safe storage solutions in full compliance with 033B.1 specifications.

The XSD 1400 and XSD 700 series cabinets employ a unique, energy saving dual wall insulated steel and glass design and the U5002 "Dynamic Series" closed loop Zeolite dryer. Featuring powerful dehumidification, optimal humidity levels are below 0.5%RH and vapor content of less than 0.6g.m<sup>3</sup>. In addition, their unique design regenerates only when necessary according to cabinet load, thereby further reducing energy consumption, which averages less than 30W/hr.

Oxidation has always been a very significant drawback of baking components, and in fact even a single bake cycle at typical 125° temperatures will significantly increase wetting times. The Super Dry process dramatically reduces this oxidation risk, because it employs mild, low heat

delivered within an exceptionally dry atmosphere. The oxygen molecules in water are a much greater catalyst to the oxidation process than those in the air. So heating at the sub 0.5% RH levels the XSD is capable of achieving does not promote the oxidation common to traditional processes. And furthermore, 50 degrees C is safe for tapes and reels, enabling drying of taped component without damage. This fully eliminates the cost and logistics of removing components from tape prior to drying, then re-taping for subsequent production use.

Learn more at [www.superdry.info](http://www.superdry.info)

## Ends

### About Totech Super Dry<sup>R</sup>

Delivering globally to the world's top tier OEM and EMS companies, and manufacturing in Asia and in Europe, Totech Super Dry has become the industry measure for ultra low humidity storage cabinets. Proper control of moisture sensitive devices (MSDs) per IPC and JEDEC standards has become more critical than ever since the introduction of lead free and its higher reflow temperatures. Boasting 0.5% relative humidity control and the fastest recovery times, Super Dry cabinets are available in a wide range of sizes and configurations, all with certified performance control measures.

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