

Worldwide unique services

Long-Term Conservation and Storage in high-security buildings



HTV-TAB[®]-method (Thermal-Absorptive Gas-Barrier)

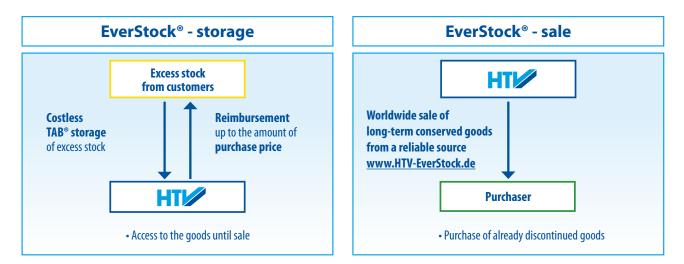
Conservation and Storage of electronic components for currently up to 50 years

- Drastic reduction of aging processes, e.g.:
 - Extreme reduction of diffusion (e.g. intermetallic phase growth)
 - Nearly no corrosion and oxidation processes
 - Prevention of whisker formation and tin pest
 - Absorption of hazardous substances
- Storage with fire-preventing atmosphere in high-security buildings
- Availability and processability of components ensured for many decades



HTV-EverStock®

Free storage of customer excess stock in the worldwide unique TAB®-Long-Term Conservation process. Sale of long-term conserved, and thus as good as new, original components from a reliable source



HTV-PermaDoc[®]

Long-Term Storage and Conservation of important documents, files and data carriers

- **PermaDoc®: Safe storage** of important documents such as manufacturing records and files, as well as valuable, sensitive documents and data carriers
- PermaDoc[®]PLUS-procedure for archiving and conservation of documents for many decades with a special storage and protection concept





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Worldwide unique services



Cleaning and reconditioning of electronic components for renewing the solderability

HTV-revivec®

- Removal of inorganic and organic impurities
- · Cleaning and reconditioning of oxidised or corroded surface

The **revivec**[®]-method is especially suitable for components with a thick tin layer showing oxidation at the surface.



Pin with impurities



Pin after treatment with HTV-revivec®

WORLDWIDE UNIQUE!

HTV-NovaTIN®

Removal of the complete tin layer followed by a rebuilding of a stable, solderable and lead-free pure tin layer

- Removal of diffused surfaces incl. selective removal of intermetallic phases followed by galvanic retinning
- · Retinning (refurbishing) of desoldered components
- Re-alloying from "leaded" to "lead-free" (RoHS standard)

HTV-NovaTIN[®] is particularly suitable for **components** where **diffusion** has already taken place.



Component after retinning with **HTV-NovaTin**®

Programming

HTV-OTP-Alive

Erasing and reprogramming of usually only one time programmable components (OTP)

- Complex component decapsulation, localisation of memory areas to be erased, UV erasure
- Quality control followed by reprogramming
- · Verification and encapsulation with a special mold mass
- Reusing a variety of OTP components





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