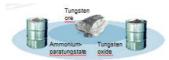


Applications of tungsten



Public

for essential products of everyday life:



Molybdenum & Tungsten: Strong metals for a high-tech world

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Applications of tungsten



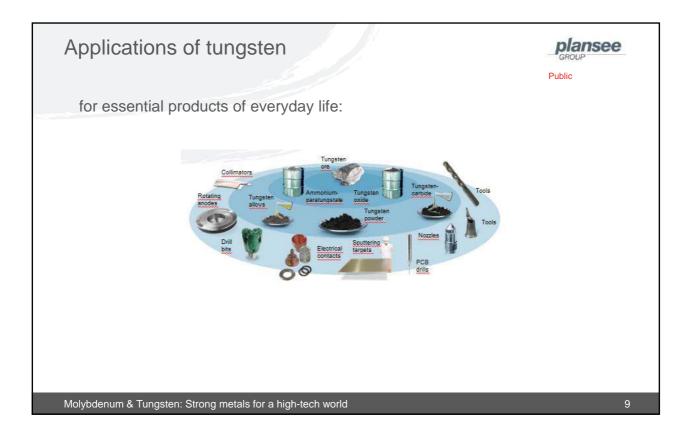
Public

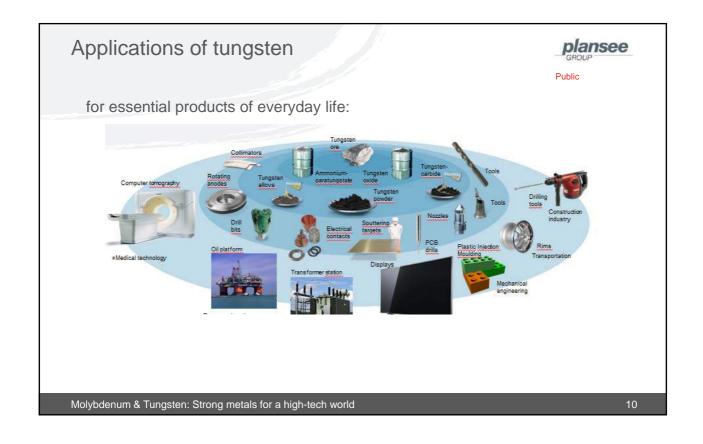
for essential products of everyday life:



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Responsible sourcing and processing of tungsten



Public

Strategic goals:

- Long-term and sustainable W supply of the Plansee Group
- Secured access to primary raw material sources
- Refrain from purchasing or using "conflict minerals"
- Socially and environmentally responsible sourcing in accordance with the Plansee Group's Code of Conduct
- Resource and energy efficient processing

Measures:

- Vertical integration
- Primary and secondary raw material sourcing
- Recyling and industrial Re-use of Tungsten
- Energy efficiency improvement
- Process & product optimization

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Vertical integration



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Plansee Group Tungsten Road Map



Handle all processing steps throughout the value chain

From a tungsten processor to a vertically integrated group of companies

From ore/concentrate and powders to fabricated products

















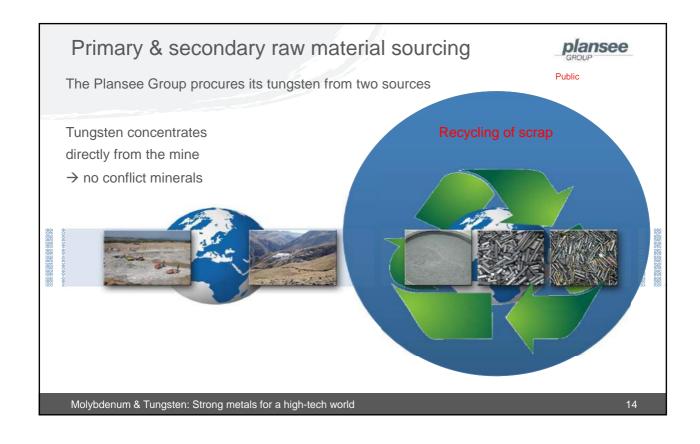
The Plansee Group developed into a strategic tungsten supplier of leading companies around the globe

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Vertical integration – Global Tungsten & Powders plansee GTP expands the vertical integration of the Plansee Group to become the leading Western producer of W- and WC-powders by: Plants in the US and Europe State of the art technology to guarantee competitive processing of various raw materials Recycling of secondary raw materials and processing of tungsten concentrates directly News 2015: GTP acquires TIKOMET from mines Continuous investment in technology and capacity extension

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Secondary raw material sourcing (scrap) and recycling



Public

- Collection systems for hard metal containing scrap
- Cooperation with waste disposal / recycling companies
- Take back agreements with Plansee Group customers

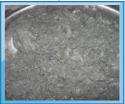
Hard scrap: end of life products (cutting inserts, wear parts, tools, punches and dies, etc.)





Soft scrap: by-product of tungsten processing (shavings, turnings, grinding sludge, sweepings and powders, etc.)





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