ISO ACTIVITY FACT SHEET

Below is background information about the related ISO activities lists on the agenda for your review in advance of the meeting. Links are included to various standards projects.

<table>
<tr><th colspan="2">TC 345 MATERIALS FOR SPECIALTY TECHNOLOGIES</th></tr>
<tr><td colspan="2">Created: 2023</td></tr>
<tr><td>Secretariat: AFNOR (France)</td><td>Chairperson (until end 2029): M Grégoire Jean</td></tr>
<tr><td>Committee Manager: Mme Donia Benider</td><td>ISO Technical Programme Manager [TPM]:
Mme Mercè Ferrés Hernández</td></tr>
<tr><td>U.S. TAG Admin: Jason Knopes, ANSI (formerly, currently non-members)</td><td>U.S. TAG Chair: John Bonevich, NIST (formerly)</td></tr>
<tr><td colspan="2">Scope: Standardization in the field of specialty metals, minerals and materials from primary and secondary sources used for specialty technologies (e.g., emerging technologies, renewable energy). It includes: terminology, classification, sampling, testing and chemical analysis methods, traceability, packaging and labelling.

A list of specialty metals and minerals is included as follows: antimony, beryllium, cobalt, chromium, graphite, niobium, platinum group metals, tantalum, vanadium, zirconium.

Excluded:
Finished consumer products;
Sustainability issues;
Mining, already covered by ISO/TC 82 “Mining”;
Metals and minerals already covered by existing ISO technical committees: ISO/TC 18 “Zinc and zinc alloys”, ISO/TC 20/SC 18 “Materials” (under ISO/TC 20 “Aircraft and space vehicles”), ISO/TC 26 “Copper and copper alloys”, ISO/TC 79 “Light metals” (aluminum, titanium, magnesium), ISO/TC 132 “Ferroalloys” (manganese, chrome in ferroalloys), ISO/TC 155 “Nickel and nickel alloys”, ISO/TC 183 “Copper, lead, zinc and nickel ores and concentrates”, ISO/TC 229 “Nanotechnologies” ISO/TC 298 “Rare earth”, ISO/TC 333 “Lithium”.
NOTE: Other metals and minerals not covered by existing committees can be added to the list in the future.</td></tr>
<tr><td>15 Participating Members</td><td>16 Observing Members</td></tr>
</table>

PC 348 SUSTAINABLE RAW MATERIALS	
Created: 2023	
Secretariat: DIN (Germany)	Chairperson (until end 2028): Mr Dr Michael Haschke
Committee Manager: Mrs Julia Listringhaus	ISO Technical Programme Manager [TPM]: Mme Mercè Ferrés Hernández
U.S. TAG Admin: Jason Knopes, ANSI	U.S. TAG Chair: Sallie Greenberg U.S. TAG Vice Chair: Anna Wendt, DOE
Scope: This document specifies criteria for sustainable raw materials along industry best practices and is intended to be used for mineral-, raw iron- and non-iron-metals. It is applicable to the full value chain of all raw materials, from extraction (mining) to processing, to refining, to final product manufacturing, thereby including the full upstream and downstream value chain. It does not apply to the mine closure and/or mine reclamation stage activities as these stages are not considered integral parts of the value chain.	
21 Participating Members	15 Observing Members

TC 82/SC 7 SUSTAINABLE MINING AND MINE CLOSURE	
Created: 2013	
Secretariat: KAT (Korea, Republic of)	Chairperson (until end 2025): M Christophe Didier
Committee Manager: Dr Dukmin Kim	ISO Technical Programme Manager [TPM]: Mme Mercè Ferrés Hernández
U.S. TAG Admin: *Brian Zupancic, CSA (formerly, currently non-members)*	U.S. TAG Chair: *N/A, non-members*
Scope: Standardization of environmental, social and governance aspects of mining to: • minimize the negative impacts from mining through its life cycle and transition to post-mining land use, • take action to combat climate change and its impacts, • develop sustainable benefits and opportunities for local and regional communities, • respect community cultural connections to places, • adopt a long-term view that ensures inter-generational equity, • embrace opportunities for innovation by adopting the principles of the circular economy, • enhance transparency of mining practices. Excluded: • Occupational health and safety aspects related to workplace activities, covered by ISO/TC 283. • Risk management guidance, provided in ISO 31000. • Industrial wastewater treatment and reuse, covered by ISO/TC 282/SC4. • Machinery.	
18 Participating Members	15 Observing Members
5 Published Standards	2 Standards Under Development

TC 333 LITHIUM	
Created:	
Secretariat: SAC (China)	Chairperson (until end 2025): Mr Jiangfeng Zhang
Committee Manager: Ms Yan Cui	ISO Technical Programme Manager [TPM]: Mme Blandine Garcia
U.S. TAG Admin: *Andrea Tanner, CSA*	U.S. TAG Chair: *John Bonevich, NIST*
Scope: Standardization in the field of lithium mining, concentration, extraction, separation and conversion to useful lithium compounds/materials (including oxides, salts, metals, master alloys, lithium-ion battery materials, etc.) The work program includes terminology, technical conditions of delivery to overcome transport difficulties, unified testing and analysis methods to improve the general quality of lithium products. Excluded: Battery Note: Battery is a component and not a material, which can be directly used in electric vehicles, digital cameras, electric motorcycles, etc	
21 Participating Members	12 Observing Members
	17 Standards Under Development Standards

TC 298 RARE EARTH	
Created: 2015	
Secretariat: SAC (China)	Chairperson (until end 2027): Mr Haifeng Liu
Committee Manager: Mr Guanyu Song	ISO Technical Programme Manager [TPM]: M Stéphane Sauvage
U.S. TAG Admin: *Andrea Tanner, CSA*	U.S. TAG Chair: *John Bonevich, NIST*
Scope: Standardization in the field of rare earth mining, concentration, extraction, separation and conversion to useful rare earth compounds/materials (including oxides, salts, metals, master alloys, etc.) which are key inputs to manufacturing and further production process in a safe and environmentally sustainable manner.	
20 Participating Members	18 Observing Members
12 Published Standards	8 Standards Under Development