
**Ships and marine technology —
Measures to prevent asbestos emission
and exposure during ship recycling**

*Navire et technologie maritime — Mesures préventives concernant
l'émission et l'exposition à l'amiante lors du recyclage des navires*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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This first edition of ISO 30007 cancels and replaces ISO/PAS 30007:2010.

Ships and marine technology — Measures to prevent asbestos emission and exposure during ship recycling

1 Scope

This International Standard provides effective methods for minimizing the dangers of asbestos during ship recycling, reducing both the release of asbestos into the environment and worker exposure to asbestos. It helps ship recyclers to fulfil the requirements of *The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships*, 2009^[5].

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

asbestos

variety of fibrous silicate minerals, namely actinolite asbestos, amosite, anthophyllite asbestos, chrysotile, crocidolite and tremolite asbestos

2.2

asbestos-containing material

ACM

material containing more than one percent asbestos or defined material regulated by national rule

2.3

clean room

uncontaminated room having facilities for the storage of employees' street clothing and uncontaminated materials and equipment

2.4

competent person

person capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure and who has the authority to take prompt corrective measures to eliminate them

NOTE The competent person will have appropriate training, certification and/or license that meets the requirements of national legislation for the specific tasks undertaken.

2.5

decontamination zone

enclosed area adjacent and connected to asbestos-removal area and consisting of an equipment room (change room), shower area and clean room, which is used for the decontamination of workers, materials, and equipment that are contaminated with asbestos

2.6

equipment room

change room

contaminated room located within the decontamination zone that is supplied with impermeable bags or containers for the disposal of contaminated protective clothing and equipment

2.7
high-efficiency particulate air filter
HEPA filter
 filter capable of trapping and retaining around at least 99,97 % of all mono-dispersed particles of 0,3 µm in diameter

2.8
ship recycling
 activity of complete or partial dismantling of a ship at a ship recycling facility in order to recover components and materials for reprocessing and reuse or for disposal, including processing hazardous and other materials, and their associated operations such as storage and treatment of components and materials on site, but not their further processing or disposal in separate facilities

2.9
inventory
 inventory of hazardous materials

NOTE The inventory is a requirement for recycling ships that is specified by *The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships*, 2009.

[ISO 30006:2010, definition 3.2]

2.10
wetting agent
 water, or water to which surfactant has been added (to increase the ability of the liquid to penetrate), that is applied to ACM to suppress dust emission during removal

3 Work categorization (grade) to minimize asbestos emissions and exposure during ship recycling

In order to minimize the generation of asbestos dust and potential worker exposure during ship recycling operations, the ship recycling facility's competent person shall determine the appropriate work grade in accordance with Table 1, and shall determine corresponding working procedures in accordance with the methodologies given in Table 2.

Since the difficulty of performing a task can be estimated by the type and manner of use of ACM, three work grades have been established accordingly. See Table 1.

Table 1 — Work grading

Work grade	Description
1	Work for removal of sprayed-on asbestos, which requires strict measures to minimize emission of asbestos to environment and exposure of worker to asbestos such as thermal system insulation or surfacing ACM
2	Work for removal of ACM except sprayed-on asbestos for thermal insulation for main and auxiliary engines, thermal insulation for other pipes and armouring materials subjected to heat
3	Work for removal of ACM except sprayed-on asbestos used in accommodation and service spaces; walls (ceilings, floorings and linings) and moulded seal materials for devices or piping (joint sheets, gaskets, gland packing, packing and linings) ^a
As factors such as workload, the working environment, and methodologies may vary, the competent person shall periodically review tasks for asbestos abatement both before and during operations to determine if the work grade should be amended.	
The user shall ensure compliance with the national requirements.	
^a When ACM is cut by power-tool, the work shall be categorized in work grade 2.	