

Conditions of acceptance for the underground waste disposal plant Zielitz

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Waste characteristics

The following waste types may not be deposited:

- radioactive,
- liquid (including those that contain free liquids i.e. release these liquids after longer storage or due to agitation),
- infectious wastes as well as body parts and organs,
- unidentified or new chemical wastes from research, development and training activities, with unknown effects on humans and the environment,
- complete or split scrap tyres,
- wastes causing considerable odour nuisance,
- biodegradable (organic) wastes,
- wastes generated by collective disposal (exceptions possible with appropriate authorisations by the inspecting authority),
- wastes, which under deposit conditions (30 °C) may react with each other or the surrounding rock-bed, generating volume expansions, self-ignitable, toxic (> 10x AGW/MAK¹) or explosive gases or substances (gases max. 10% UEG²) or other dangerous reactions,
- wastes that under deposit conditions (30 °C) are explosive, highly or easily flammable, or have a pungent smell, or have insufficient stability to correspond to the geomechanical conditions,
- outgassing wastes (saturation vapour pressure > 1,000 Pa),
- Class 1, 2, 3, 4.2, 6.2 and 7 wastes according to ADR/RID.

Approval procedure

- The underground waste disposal facility (UTD) is authorised to approve wastes from Germany in a privileged procedure, in accordance with the Ordinance on Waste Disposal and Recovery (Nachweisverordnung). Waste producers/owners from Germany can therefore present the required documents directly at the underground waste disposal facility.³
- Only those wastes may be accepted, for which a signed deposit agreement is available.
- For wastes originating in countries other than Germany, a notification is required. Please contact K+S Entsorgung GmbH regarding the notification documents.
- If applicable, an obligation to declare the wastes to the waste management board, which tenders the disposal to a waste management company, needs to be observed.

Accompanying documents

- The required accompanying documents are determined by type and origin of waste, as well as by official specifications. **These documents need to be presented upon arrival; otherwise we are entitled to reject the delivery.**
- In case of delivery from Germany: covering letters, instruction in writing (accident procedures sheet), weighbridge ticket, as well as ADR-certificate in case of hazardous material.
- Additionally, in case of delivery from abroad: bill of lading and dispatch-/covering letter.
- **In addition to legal requirements, the accompanying documents need to include type and number of containers, as well as the K+S code.**
- In case of missing weighbridge ticket, the acceptance procedure will include weighing. All deliveries shall include random control weighings.

¹ AGW: Arbeitsplatzgrenzwert; MAK: maximale Arbeitsplatzkonzentration = workplace exposure limits

² UEG: Untere Explosions-Grenze = LEL: Lower Explosive Limit

³ Cover page disposal certificate, responsible declaration, declaration analysis, records on sampling and sample preparation, as well as the supplementary sheet "underground waste disposal facility"

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Packaging

- **Generally, all wastes need to be packed.** Exceptions are made for non-packable large-scale equipment/containers (by prior agreement).
- **The type of packaging** (steel drums, steel containers, big-bags) is based on the waste characteristics, and **is mandatorily specified within the scope of the certification/notification procedure.**
- Details regarding the different types of packaging can be found on the following pages.
- **All containers need to be undamaged and clean on the outside.**
- **All containers need to be durably and noticeably marked with the K+S code** (letter height min. 10 cm, not positioned on lid, no paper labels).
- In case of hazardous material, packaging needs to comply with ADR-regulations, and needs to be marked in accordance with the Ordinance on Hazardous Materials, i.e. guideline 67/548/EWG.
- Acceptance of transformers is possible on agreement.

Delivery of wastes

Opening hours of the waste disposal plant:

Mon.-Fri. 6:00 to 13:30

Unannounced or delivery dates not confirmed by the underground disposal facility may lead to significant delays.

Please confirm delivery dates at least two days previously, either by phone or fax, with the underground deposit facility:

Phone: +49 (39208) 4-2694

Fax: +49 (39208) 4-3124

Delivery by lorry:

- Use of district road 172 Mose-Farsleben officially prohibited
- Lorries bearing containers need to be unloadable from the side.
- On works premises, traffic is governed by German road traffic regulations, max. speed 30 km/h.
- If needed, instructions by personnel.

Rail delivery:

- Permissible wagon-types:
Hbikks-H i.e. Hbbilns (lockable interior dividing walls and fully movable side walls), closed.

Acceptance / Registration

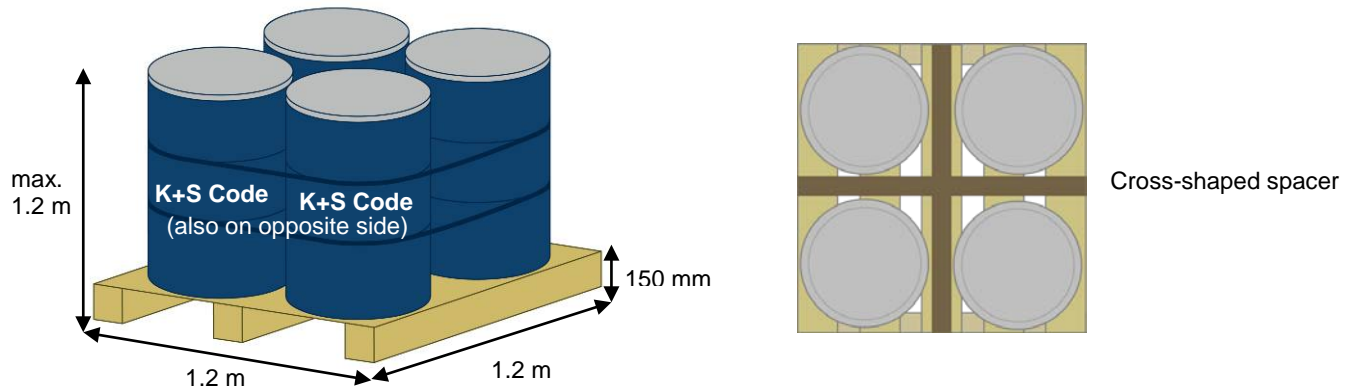
- Each delivery will be subjected to an acceptance control, verifying the waste's identity (duration approx. 30 minutes). The underground deposit facility does not assume liability for this time specification.
- **All wastes deviating from the declaration in the disposal certificate, i.e. which do not comply with the notification documents, or which are inadequately packed, may be rejected.**
- The underground disposal facility does not assume liability for damages caused by unloading of trucks or wagons, such as by the following:
 - inadequately loaded or slipped pallets/loads,
 - pallets not in compliance with underground disposal facility's requirements,
 - additional cargo not previously announced to the unloading-personnel.

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Steel drum container unit



All pallets and drums containers need to be undamaged and clean on the outside, the drums tightly sealed.

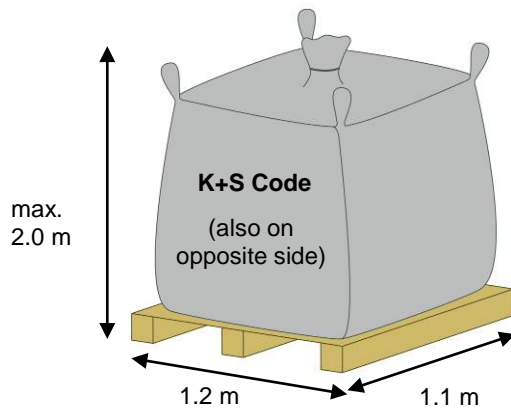
<p>Drum container unit</p> <ul style="list-style-type: none"> - steel drums are accepted as so-called drum container units only - a drum container unit generally consists of 4 equally dimensioned steel drums, resting on one pallet - if only one drum is actually filled, three empty drums need to be added to the unit - total height incl. pallet max. 1.2 m - certified (e.g. by inspection certificates) as adequate for 8-tier stacking 	<p>Labelling</p> <ul style="list-style-type: none"> - durable labelling with 'K+S-code' (no sticker) - on each drum - height min. 10 cm - visible on the side that is picked up by the fork-lift (not on the lid) - if applicable marking in accordance with ADR and GefStoffV
<p>Safeguarding the unit</p> <ul style="list-style-type: none"> - 2 steel strips or plastic strips with equal breaking load, each min. 20 mm wide - two cross-shaped spacers between drums: → lower cross-shaped spacer approx. 1.2m long, nailed in centre → upper cross-shaped spacer: maximum length 1.2m 	<p>Drums</p> <ul style="list-style-type: none"> - 4 equally dimensioned 200-litre steel drums - type-approved in accordance with ADR - drums lined with a 0.2 mm-thick, tightly sealed PE-bag (possible exception: hot-filled wastes)
<p>Two-way pallets</p> <ul style="list-style-type: none"> - base area: 1.2 m x 1.2 m - to be picked up by fork-lift on one side - certified (e.g. by inspection certificates) as adequate for 8-tier stacking 	<p>Drum lids</p> <ul style="list-style-type: none"> - removable - tension ring lock pointing to the outside, and cotter pin - bungholes permitted only upon prior agreement - permissible gross weight per drum may not be exceeded

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Big-Bags (FIBC)



Pallets and big-bags need to be undamaged and clean on the outside, the big-bags tightly sealed.

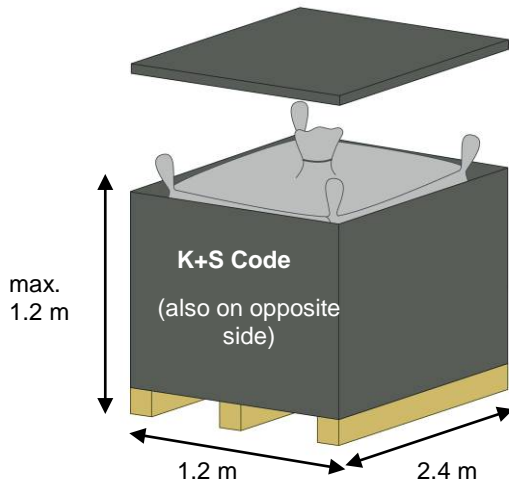
<p>Big-Bag-Type</p> <ul style="list-style-type: none"> - 4 lifting loops on corners - bottom shape closed (no bottom outlet) - certified for underground use: flame-retardant, mining-hygienically un-objectionable and anti-static - dustproof, e.g. with sealed seams - if applicable composed of two layers - determination of construction type will be effected within the certification-/notification-procedure - certified (e.g. by inspection certificates) as adequate for 6-tier stacking (Min. safety factor: 6:1) 	<p>Labelling</p> <ul style="list-style-type: none"> - durable labelling with 'K+S-code' (no sticker) on opposing sides - height min. 10 cm - visible on the sides that are picked up by fork-lift - if applicable marking in accordance with ADR and GefStoffV
<p>Big-Bag-Filling</p> <ul style="list-style-type: none"> - filling may not project beyond the pallet's base area - only for loose material without pointed, sharp-edged or coarse components (exceptions on special request only) - gross weight in accordance with approval, but not in excess of 1,500 kg - total height closure: max. 2.0 m 	<p>UTD (underground disposal facility)-pallet</p> <ul style="list-style-type: none"> - base area: max. 1.2 m x 1.1 m - to be picked up by fork-lift on the 1.2 m-length side - closed sheeting - certified (e.g. by inspection certificates) as adequate for 8-tier stacking

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Steel sheet container (IBC)



Container and base need to be undamaged and clean on the outside, the container tightly sealed.

<p>Type and filling</p> <ul style="list-style-type: none"> - closed steel sheet container lined with PE-bag or big-bag - sheet thickness (bottom+clip-on lid) ≥ 1.25 mm) - material grade St 37 - gross weight in accordance with approval, but not in excess of 3,000 kg - lids secured by screws - certified (e.g. by inspection certificates) as adequate for 6-tier stacking 	<p>Labelling</p> <ul style="list-style-type: none"> - durable labelling with 'K+S-code' (no sticker) on opposing sides - height min. 10 cm - visible on the short sides that are picked up by fork-lift - if applicable marking in accordance with ADR and GefStoffV
<p>Dimensions</p> <ul style="list-style-type: none"> - base area: 1.2 m x 2.4 m - total height (container and base): max. 1,2 m - (additional dimensions on request - max. depth 2.4 m) 	<p>Container base</p> <ul style="list-style-type: none"> - container positioned on UTD (underground disposal facility)-pallet, or on square shaped timber feet or steel roof beams - to be picked up by fork-lift on the 1.2 m-length side