

## 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, which under deposit conditions (30 °C) may react with each other or the surrounding rock-bed, generating volume expansions, self-ignitable, toxic (> 10x AGW/MAK<sup>1</sup>) or explosive gases or substances (gases max. 10% UEG<sup>2</sup>) 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.

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## 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.
- 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.
- **For wastes originating in countries other than Germany, a notification is required. Please contact K+S regarding the notification documents.**

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## 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.

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<sup>1</sup> AGW: Arbeitsplatzgrenzwert; MAK: maximale Arbeitsplatzkonzentration = workplace exposure limits

<sup>2</sup> UEG: Untere Explosions-Grenze = LEL: Lower Explosive Limit

## Packaging

- **Generally, all wastes need to be packed.**  
Exceptions are made for silo-truck deliveries (if wastes are packed in big-bags at the underground waste disposal facility), as well as 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 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.
- **All containers need to be undamaged and clean on the outside.**
- The temperature of wastes delivered in silo-trucks must not exceed 80 °C.
- Acceptance of transformers is possible on agreement.

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## Delivery of wastes

### **Opening hours of the waste disposal plant:**

Mon.-Fri. 5:30 to 12:00

Silo-truck deliveries: Mon.-Fri. 0:00 to 24:00

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

### **Delivery by lorry:**

- 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.

### **Please confirm delivery dates in due time, either by e-mail, phone or fax, with the underground deposit facility:**

E-Mail: [dispo\\_utdhn@k-plus-s.com](mailto:dispo_utdhn@k-plus-s.com)

Phone: +49 (6624) 81-1308

Fax: +49 (6624) 81-1358

### **Rail delivery:**

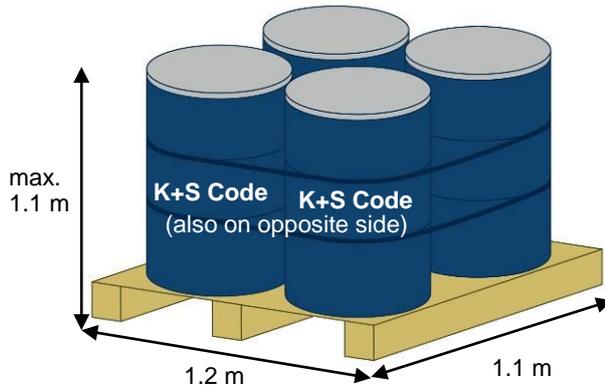
- More information on rail delivery (permissible wagon types) available on request.

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## 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.

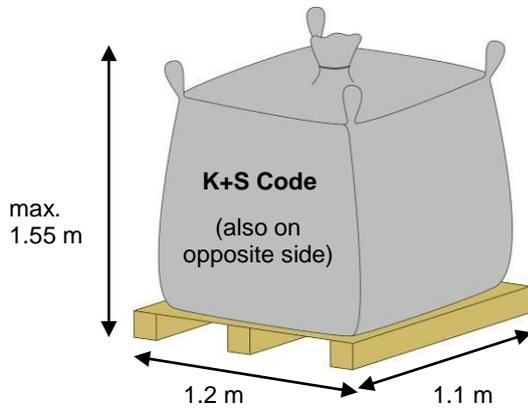
**Steel drum container unit**



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

<p><b>Drum container unit</b></p> <ul style="list-style-type: none"> <li>- steel drums are accepted as so-called drum container units only</li> <li>- a drum container unit generally consists of 4 equally dimensioned steel drums, resting on one pallet</li> <li>- total height incl. pallet max. 1.1 m</li> </ul>	<p><b>Labelling</b></p> <ul style="list-style-type: none"> <li>- durable labelling with 'K+S-code' (no sticker)</li> <li>- on each drum</li> <li>- height min. 10 cm</li> <li>- visible on the side that is picked up by the fork-lift (not on the lid)</li> <li>- if applicable marking in accordance with ADR and GefStoffV</li> </ul>
<p><b>Safeguarding the unit</b></p> <ul style="list-style-type: none"> <li>- 2 steel strips or plastic strips with equal breaking load (other types of strips on request)</li> <li>- each min. 25 mm wide</li> </ul>	<p><b>Drums</b></p> <ul style="list-style-type: none"> <li>- 4 equally dimensioned 200-litre steel drums</li> <li>- type-approved in accordance with ADR</li> <li>- drums lined with a 0.2 mm-thick, tightly sealed PE-bag (possible exception: hot-filled wastes)</li> </ul>
<p><b>UTD (underground disposal facility)-pallet</b></p> <ul style="list-style-type: none"> <li>- base area: 1.2 m x 1.1 m</li> <li>- to be picked up by fork-lift on the 1.2 m-length side</li> <li>- closed sheeting</li> </ul>	<p><b>Drum lids</b></p> <ul style="list-style-type: none"> <li>- removable</li> <li>- tension ring lock pointing to the outside, and cotter pin</li> <li>- permissible gross weight per drum may not be exceeded</li> </ul>

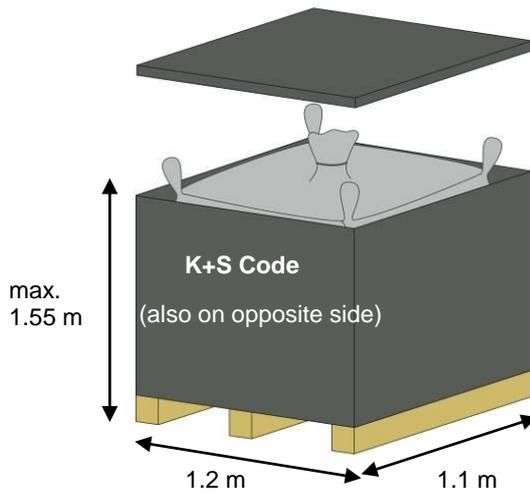
**Big-Bags (IBC-F)**



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

<p><b>Big-Bag-Type</b></p> <ul style="list-style-type: none"> <li>- 4 lifting loops on corners</li> <li>- bottom shape closed (no bottom outlet)</li> <li>- certified for underground use: flame-retardant, mining-hygienically un-objectionable and anti-static</li> <li>- dustproof, e.g. with sealed seams</li> <li>- if applicable composed of two layers</li> <li>- determination of construction type will be effected within the certification-/notification-procedure</li> </ul>	<p><b>Labelling</b></p> <ul style="list-style-type: none"> <li>- durable labelling with 'K+S-code' (no sticker) on opposing sides</li> <li>- height min. 10 cm</li> <li>- visible on the sides that are picked up by fork-lift</li> <li>- if applicable marking in accordance with ADR and GefStoffV</li> </ul>
<p><b>Big-Bag-Filling</b></p> <ul style="list-style-type: none"> <li>- filling may not project beyond the pallet's base area</li> <li>- only for loose material without pointed, sharp-edged or coarse components</li> <li>- gross weight in accordance with approval, but not in excess of 1,500 kg</li> <li>- total height including sealing flower: max. 1.55 m (big bag + range + sealing flower)</li> <li>- filled big-bags must be stable and stackable</li> </ul>	<p><b>UTD (underground disposal facility)-pallet</b></p> <ul style="list-style-type: none"> <li>- base area: 1.2 m x 1.1 m</li> <li>- to be picked up by fork-lift on the 1.2 m-length side</li> <li>- closed sheeting</li> </ul>

**Steel sheet container (IBC)**



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

<p><b>Type and filling</b></p> <ul style="list-style-type: none"> <li>- closed steel sheet container lined with PE-bag or big-bag</li> <li>- sheet thickness (bottom+clip-on lid)<math>\geq</math>1.25 mm)</li> <li>- material grade St 37</li> <li>- gross weight in accordance with approval, but not in excess of 3,000 kg</li> <li>- lids secured by screws</li> </ul>	<p><b>Labelling</b></p> <ul style="list-style-type: none"> <li>- durable labelling with 'K+S-code' (no sticker) on opposing sides</li> <li>- height min. 10 cm</li> <li>- visible on the sides that are picked up by fork-lift</li> <li>- if applicable marking in accordance with ADR and GefStoffV</li> </ul>
<p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>- base area: 1.2 m x 1.1 m</li> <li>- total height (container and base): max. 1.55 m</li> <li>- additional dimensions on request (max. length 2.2 m)</li> </ul>	<p><b>Container base</b></p> <ul style="list-style-type: none"> <li>- container positioned on UTD (underground disposal facility)-pallet, or on square shaped timber feet or steel roof beams</li> <li>- to be picked up by fork-lift on the 1.2 m-length side</li> </ul>