

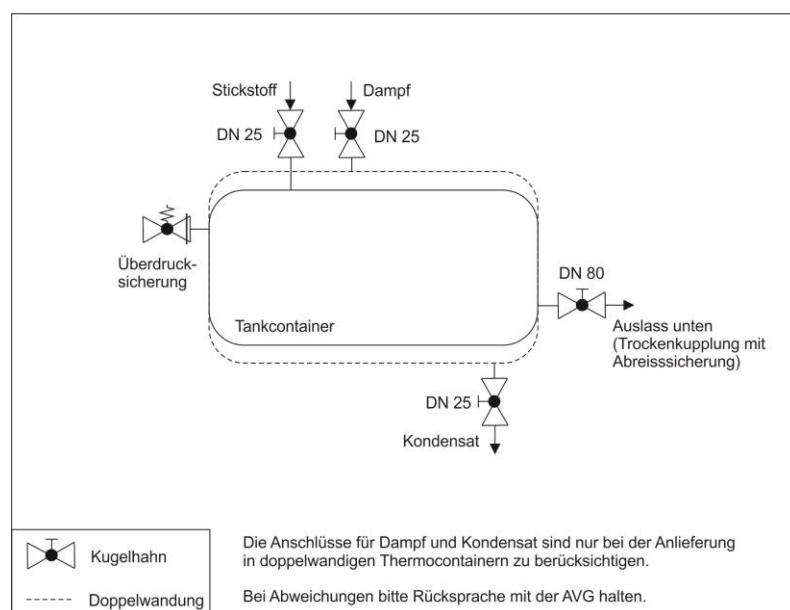


## 1. Definition

Waste for direct injection within the meaning of this information leaflet is liquid waste from industry, commerce, collection and hazardous substance collection that cannot be disposed of in AVG tank farm due to its chemical properties.

## 2. Delivery form

- Delivery takes place in tankers/transport containers. The tank containers must not be contaminated with waste from the outside.
- Tankers/transport containers will remain on our premises during unloading/treatment and must have a means of connection for nitrogen, an earthing point and a working overpressure protection. The required connections can be seen in the figure. Item 5 contains more information on the connection conditions.
- We assume that valid inspection certificates are available for each tanker and can be presented on request.



## 3. Criteria for waste for direct injection

- Viscosity: max. 200 mPas at delivery temperature
- Maximum delivery temperature: 30°C
- Sediment content: max. 0.1 Wt. %
- Particle size: max. 3 mm
- Density: < 1.2 g/cm<sup>3</sup>

The composition of the waste must correspond to the details of the questionnaire.

## Basic chemical qualities

If not otherwise agreed in the offer/certificate of disposal, the following basic qualities apply (parameters not listed must be queried separately):

• Chlorine:	< 2	Wt.%
• Bromine:	< 0.2	Wt.%
• Iodine:	< 0.01	Wt.%
• Fluorine:	< 0.1	Wt.%
• Sulphur:	< 1	Wt.%
• Phosphorus:	< 1	Wt.%
• Mercury:	< 50	mg/kg
• Arsenic, cadmium, thallium (total)	< 100	mg/kg
• Heavy metals (total) (Ni, Cu, Te, Se, Sb, Be, Pb, Cr, Sn, V)	< 0.5	Wt.%
• Zinc:	< 1	Wt.%
• Molybdenum:	< 500	mg/kg
• Sodium/potassium/lithium/magnesium (total)	< 5	Wt.%
• Organosilicon:	< 0.3	Wt.%
• Evaporation residues	< 10	Wt.%
• PCB and PCT (as per DIN)	< 10	mg/kg

## Special details

The delivery of waste/materials containing the following substances/with the following properties requires our express approval (regardless of the above basic qualities):

- Waste subject to the POP Regulation
- Waste subject to other legal requirements (e.g. CWC, narcotics law, regulation on animal by products)
- PCB-containing waste (> 10 mg/kg as per DIN)
- Note: At AVG we work with ABEK masks. Please get in touch if a different airway protection filter is needed for your waste.
- Substances with an ignition temperature < 200 °C (temperature class T4)

#### 4. Excluded substances

- Radioactive waste and waste that has radiation level higher than the background radiation
- Explosives and substances at risk of explosion
- Substances with an ignition temperature < 135 °C (temperature class T5, T6)
- Self-igniting substances

#### **PLEASE COMPLY WITH THE FOLLOWING DECLARATION OF CONSENT!!!**

To safeguard procedures within the operation, we have to move tankers with our own vehicles after emptying. By making delivery, the waste producer gives their **consent** to this.

#### 5. Conditions for tanker connection to direct injection, HTI Hamburg

The below means of connection are available at the Hamburg facility:

	Floor drainage	Standpipe removal	N <sub>2</sub> connection	Steam connection
Tanker coupling	DN 100 DN 80 DN 50	N/A	DN 50 DN 25	-----
Threaded coupling	DN 100 DN 80	N/A	-----	-----
Flange coupling	DN 80 DN 50 DN 25 DN 20	N/A	DN 50 DN 25 DN 20	DN 50 DN 25 DN 20

The permitted operating pressure of the tank container must be min. 3 bar (nameplate).

All connections must be clearly labelled, seals must be intact.  
Further sizes after consultation only with min. 14 day notice