

ICS 13.300; 23.020.20

English Version

Tanks for transport of dangerous goods - Guidance and recommendations for loading, transport and unloading

Citernes destinées au transport de matières dangereuses -
Lignes directrices et recommandations pour le chargement,
le transport et le déchargement

Tanks für Beförderung gefährlicher Güter - Leitlinien und
Empfehlungen für Befüllung, Beförderung und Entladung

This Technical Report was approved by CEN on 10 April 2005. It has been drawn up by the Technical Committee CEN/TC 296.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Bottom loading gantry function and operation	5
5 Tank truck function and equipment	8
6 Electrical equipment	13
7 Gantry — tank truck system interfaces	13
8 Conditions of operation	13
9 Safe loading pass	14
10 Discharge	14
Annex A (normative) Tank connection envelope	17
Annex B (normative) Vapour flow performance test	20
Annex C (normative) Information plate	26
Annex D (normative) Overfill prevention sensor setting	28
Annex E (informative) Illustration of when an explosive atmosphere might be present or might arise during loading operations	30
Annex F (informative) Safe loading pass scheme	32
Bibliography	36

Foreword

This Technical Report (CEN/TR 15120:2005) has been prepared by Technical Committee CEN/TC 296 "Tanks for transport of dangerous goods", the secretariat of which is held by AFNOR.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document is a preview generated by EVS

1 Scope

This Technical Report provides guidance and recommendations to enable the transfer of product and vapour between the loading gantry, the tank truck and the service station.

The European Parliament and Council Directive 94/63/EC (VOC Directive) requires operators to ensure that petroleum vapours are not emitted into the atmosphere during loading and unloading. The recommendations and guidance given in this document are intended to assist users in meeting the requirements of this Directive.

This Technical Report acknowledges that, for climatic and logistical reasons alternative technical solutions are commonly used in the Arctic Region.

This Technical Report gives guidance and recommendations for loading at terminals and discharge at service stations or customer premises of tank trucks transporting dangerous goods (liquid petroleum fuels) which have a vapour pressure not exceeding 110 kPa, at 50 °C (including petrol), and which have no sub-classification as toxic or corrosive.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12972, *Tanks for transport of dangerous goods — Testing, inspection and marking of metallic tanks*.

EN 14564:2004, *Tanks for transport of dangerous goods — Terminology*.

3 Terms and definitions

For the purposes of this Technical Report, the terms and definitions given in EN 14564:2004 and the following apply.

3.1

arctic region

region comprising Finland, Norway and Sweden

3.2

authorization to load

authorization of a tank truck loader by a terminal operator to load the required goods into the tank truck following the verification of his or her competence including any required certification and its associated validity

3.3

driver

person in charge of the tank truck, having responsibility for driving and who might or might not also be responsible for its loading and/or discharge

3.4

overfill

filling of a tank truck or one or more of its compartments to the extent that the total volume loaded into a compartment exceeds the maximum permitted volume