



ISO/TC 220 N 189



2006-04-27

ISO/TC 220 Secretariat

Nicole LEGENT

Telephone : +33 1 41 62 84 50
Fax : +33 1 49 17 90 00
e-mail : nicole.legent@afnor.org

<p>ISO/TC 220</p> <p>Cryogenic Vessels</p>
--

Title : Activity report of the Secretariat of
ISO/TC 220

Source : AFNOR

*For information and discussion under item 6.1 of
the draft agenda of the next plenary meeting to be
held in AFNOR on 2006-06-02*

ISO/TC 220

Scope

Standardization in the field of insulated vessels (vacuum or not vacuum) for the storage and the transport of refrigerated liquefied gases, as defined in class 2 of "Recommendations on the Transport of Dangerous Goods - Model regulations ", in particular concerning the design of the vessels and their safety accessories, the gas/materials compatibility, the insulation performance, the operational requirements of the equipment and accessories.

Structure and organization

ISO/TC 220 Chairman	ISO/TC 220 Secretariat
<p>Mr Eric FORTUIT AIR LIQUIDE 75 Quai d'Orsay 75321 Paris Cedex 7 France</p> <p>Telephone : 33 1 40 62 54 34 Fax : 33 1 40 62 51 90 eric.fortuit@airliquide.com</p>	<p>AFNOR 11 avenue de Pressensé 93571 Saint-Denis La Plaine Cédex France</p> <p>Nicole LEGENT Telephone : 33 1 41 62 84 50 Fax : 33 1 49 17 90 00 nicole.legent@afnor.org</p>

ISO/TC 220 Working Groups :

- **Working Group 1** : Cryogenic vessels - Design and construction
Convenor : [Mr Hervé BARTHÉLÉMY](#) (France)
Title : Cryogenic vessels - Design and construction
- **Working Group 2** : Cryogenic vessels - Operational requirements
Convenor : [Mr Friedrich KÖSSL](#) (Germany)
Title : Cryogenic vessels - Operational requirements
- **Working Group 3** : Cryogenic vessels - Supporting standards
Convenor : [Mr Alex VARGHESE](#) (USA)
Title : Cryogenic vessels - Supporting standards

Participation

Secretariat (1)

France	AFNOR
--------	-------

P Member (11)

Algeria (IANOR)	Germany (DIN)	Switzerland (SNV)
Australia (SAI)	Italy (UNI)	United Kingdom (BSI)
Austria (ON-AUSTRIAN STANDARDS INSTITUTE)	Korea , Republic of (KATS)	United States (ANSI)
Canada (SCC)	Russian Federation (GOST R)	-

O Member (19)

Argentina (IRAM)	Egypt (EOS)	Serbia and Montenegro (ISSM)
Belgium (IBN)	Iran (ISIRI)	Slovenia (SIST)
Bulgaria (BDS)	Ireland (NSAI)	Spain (AENOR)
China (SAC-STANDARDIZAT. ADMIN. OF CHINA)	Japan (JISC)	Sweden (SIS)
Colombia (ICONTEC)	Lithuania (LST-LITHUANIAN STANDARDS BOARD)	Tunisia (INORPI)
Croatia (HZN)	Netherlands (NEN)	-
Denmark (DS)	Saudi arabia (SASO)	-

Internal Liaison Organization (3)

ISO/TC 11	Boilers and pressure vessels
ISO/TC 121	Anaesthetic and respiratory equipment
ISO/TC 197	Hydrogen technologies

External A Liaison Organization (3)

EIGA - ASSO INTERNAT GAZ INDUSTRIELS
UNECE-UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE
CGA - COMPRESSED GAS ASSOCIATION

Meeting calendar

ISO/TC 220 meetings

Date	Location	Agenda	Report
2006-06-02	AFNOR Saint-Denis, France	ISO/TC 220 N 188	
2005-06-09	Chicago, USA	ISO/TC 220 N 177	ISO/TC 220 N 182 ISO/TC 220 N 183
2004-06-17	AFNOR Saint-Denis, France	ISO/TC 220 N 145	ISO/TC 220 N 164 ISO/TC 220 N 165
2003-06-20	Roma, Italy	ISO/TC 220 N 119	ISO/TC 220 N 131
2002-06-21	Montreal, Quebec	ISO/TC 220 N 071	ISO/TC 220 N 094
2001-06-20	Arlington, VA USA	ISO/TC 220 N 046	ISO/TC 220 N 051

ISO/TC 220/WG 1 meetings

Date	Location	Agenda	Report
2006-06-01	AFNOR Saint-Denis, France	ISO/TC 220/WG 1 N 089	
2005-11-29/30	Berlin, Germany	ISO/TC 220/WG 1 N 084	ISO/TC 220/WG 1 N 087
2005-06-08	Chicago, USA	ISO/TC 220/WG 1 N 079	ISO/TC 220/WG 1 N 082
2005-04-14 (afternoon) 2005-04-15	Clearwater Beach, USA	ISO/TC 220/WG 1 N 071	ISO/TC 220/WG 1 N 077
2004-06-15 (afternoon) 2004-06-16	AFNOR Saint-Denis, France	ISO/TC 220/WG 1 N 065	ISO/TC 220/WG 1 N 068
2003-06-18/19	Roma, Italy	ISO/TC 220/WG 1 N 059	ISO/TC 220/WG 1 N 062
2002-11-21/22	Saint-Denis, France	ISO/TC 220/WG 1 N 051	ISO/TC 220/WG 1 N 055
2002-06-19/20	Montreal, Quebec	ISO/TC 220/WG 1 N 044	ISO/TC 220/WG 1 N 045
2001-11-13/14	Paris, France	ISO/TC 220/WG 1 N 030r	ISO/TC 220/WG 1 N 041
2001-06-19	Arlington, VA USA	ISO/TC 220/WG 1 N 017	ISO/TC 220/WG N 027
2001-02-05/06	Paris, France	ISO/TC 220/WG 1 N 001	ISO/TC 220/WG 1 N 013

ISO/TC 220/WG 2 meetings

Date	Location	Agenda	Report
2004-06-15 (morning)	AFNOR Saint-Denis, France	ISO/TC 220/WG 2 N 087	ISO/TC 220/WG 2 N 089
2003-06-17	Roma, Italy	ISO/TC 220/WG 2 N 059	ISO/TC 220/WG 2 N 065
2002-11-19/20	Saint-Denis, France	ISO/TC 220/WG 2 N 044	ISO/TC 220/WG 2 N 046
2002-06-18	Montreal, Quebec	ISO/TC 220/WG 2 N	ISO/TC 220/WG 2 N 027
2001-06-18	Arlington, VA USA	ISO/TC 220/WG 2 N 012	ISO/TC 220/WG 2 N 013
2001-02-12/15	Berlin, Germany	ISO/TC 220/WG 2 N 001	ISO/TC 220/WG 2 N 008

ISO/TC 220/WG 3 meetings

Date	Location	Agenda	Report
2006-05-31	AFNOR	draft agenda	
2005-12-01	Berlin, Germany		
2005-06-07	Chicago, USA		
2004-06-14	AFNOR		
2003-06-16/17	Roma, Italy	ISO/TC 220/WG 3 N 110	
2003-03-05/07	Tampa, USA		ISO/TC 220/WG 3 N 108
2002-06-17/18	Canada		
2001-06-21	Arlington, VA USA		
2001-03-21/23	Arlington, Va, USA		ISO/TC 220/WG 3 N 001

Work items under study

WI identification	Title	Current stage	Allocated to Working Group
21009-1	Cryogenic vessels - Static vacuum insulated vessels - Part 1 : Design, fabrication, inspection, tests	document ISO/TC 220/WG 1 N 88 WI cancelled by the Central Secretariat Resolution to be drafted to reintroduce the WI	1
21009-2	Cryogenic vessels - Static vacuum insulated vessels - Part 2 : Operational requirements	Last version sent on 2006-04-27 Standard being at the publication stage in the Central Secretariat	2
21011	Cryogenic vessels - Valves	New document drafted in April 2006 WI cancelled by the Central Secretariat Resolution to be drafted to reintroduce the WI	3
21012	Cryogenic vessels - Hoses	Draft for FDIS sent on 2006-12-14	3
21013-1	Cryogenic vessels - Pressure relief devices - Part 1 : Reclosable relief	New document drafted in April 2006 WI cancelled by the Central Secretariat Resolution to be drafted to reintroduce the WI	3
21013-2	Cryogenic vessels - Pressure relief devices - Part 2 : Non-reclosable relief	DIS enquiry closed on 2004-12-29 result comments New document drafted in April 2006	3
21014	Cryogenic vessels - Cryogenic insulation performance	Standard being at the publication stage in the Central Secretariat	3

Published standards

ISO 20421-1 : 2006, *Cryogenic vessels - Large transportable vacuum insulated vessels - Part 1 : Design, fabrication, inspection, tests*

ISO 20421-2 : 2005, *Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2 : Operational requirements*

ISO 21010 : 2004, *Cryogenic vessels - Gas/materials compatibility*

ISO 21013-3 : 2006, *Cryogenic vessels - Pressure relief devices - Part 3 : sizing and capacity determination*

ISO 21028-1 : 2004, *Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 1 : Temperatures below - 80 °C*

ISO 21028-2 : 2004, *Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 2 : Temperatures between - 80 °C and - 20 °C*

ISO 21029-1 : 2004, *Cryogenic vessels - Transportable vacuum insulated vessels of no more than 1000 l volume - Part 1 : Design, fabrication, inspection, tests*

ISO 21029-2 : 2004, *Cryogenic vessels - Transportable vacuum insulated vessels of no more than 1000 l volume - Part 2 : Operational requirements*

ISO 23208 : 2005, *Cryogenic vessels - Cleanliness for cryogenic service*

ISO 24490 : 2005, *Cryogenic vessels - Pumps for cryogenic vessels*