



REPORT OF VOTING ON ISO/DIS 17224	
Closing date of voting 2014-01-23	ISO/TC 156
Secretariat SAC	

A report shall be returned to ISO/CS no later than 3 months after the closing date of voting on the DIS, whether or not comments have been reviewed and/or a new text has been prepared.

- Preliminary report**  
*(submitted in those cases where comments are still to be considered and/or a decision has not yet been taken, or where it is decided that the nature of comments indicates a need for further consultation and/or reversion to a previous project development stage). To be followed by a 'Final report'. Any preliminary report is for ISO/CS for information, and is not circulated to member bodies)*
- Final report**  
*(submitted either immediately, when all comments have been reviewed and a decision can be taken, or following a 'Preliminary report'. The final report is circulated by ISO/CS to member bodies, and is distributed with any associated DIS or FDIS text)*

<p><b>1 Result of the voting</b></p> <p>The above-mentioned document was circulated to member bodies with a request that the ISO Central Secretariat be informed whether or not member bodies were in favour of registration of the DIS as a Final Draft International Standard or for publication in the case of unanimous approval.</p> <p>The vote closed on the date indicated above. The replies listed in annex A have been received.</p> <p><b>2 Comments received</b> See annex B (if appropriate)</p> <p><b>3 Observations of the secretariat</b></p> <p><b>4 Decision of the Chairman</b></p> <p><b>Preliminary report</b> (no annexes required)</p> <p><input type="checkbox"/> The comments are under review and/or a decision on further procedure has not yet been taken</p> <p><b>Final report</b></p> <p>Where the approval criteria <b>are met</b>:</p> <p><input type="checkbox"/> Having received 100% approval from the member bodies voting OR in light of the decision taken by the committee to skip the FDIS, the DIS is approved for direct publication <i>(Option not applicable to projects progressing under the Vienna Agreement)</i></p> <p><input checked="" type="checkbox"/> A revised text is to be submitted to ISO/CS for the approval procedure (FDIS vote)</p> <p>Where the approval criteria <b>are not met</b>:</p> <p><input type="checkbox"/> A revised text is to be submitted to ISO/CS for a further enquiry (DIS) vote</p> <p><input type="checkbox"/> The project is to revert to the Committee Stage (a new committee draft will be developed)</p>
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**Remarks** (e.g. observations on how comments were reviewed, date by which a decision is to be taken, date when a text is expected)

**Enclosures**

- Annex A Report of voting**
- Annex B Note: Comments and observations will be circulated later on.**

Signature of the Secretary  Feng, Chao Mr Date 2014-01-28	Signature of the Chairman  Engström Göran Mr Date 2014-01-28
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## Ballot Information

<b>Reference</b>	ISO/DIS 17224	<b>Committee</b>	ISO/TC 156
<b>Edition number</b>	1		
<b>English title</b>	Corrosion of metals and alloys -- Test method for high temperature corrosion testing of metallic materials by application of a deposit of salt, ash, or other substances		
<b>French title</b>	Corrosion des métaux et alliages -- Méthode d'essai pour essais de corrosion à haute température de matériaux métalliques par application de dépôt de sel, cendres, ou autres substances		
<b>Start date</b>	2013-10-21	<b>End date</b>	2014-01-21
<b>Opened by ISO/CS on</b>	2013-10-21 00:11:36	<b>Closed by ISO/CS on</b>	2014-01-23 00:28:48
<b>Status</b>	Closed		
<b>Voting stage</b>	Enquiry	<b>Version number</b>	1
<b>Note</b>			

## Result of voting

**P-Members voting: 16 in favour out of 16 = 100 % (requirement  $\geq$  66.66%)**

*(P-Members having abstained are not counted in this vote.)*

**Member bodies voting: 0 negative votes out of 16 = 0 % (requirement  $\leq$  25%)**

***Approved***

Votes by members					
Country	Member	Status	Approval	Disapproval	Abstention
Australia	SA	P-Member			X
Belgium	NBN	P-Member	X		
China	SAC	Secretariat	X		
Czech Republic	UNMZ	P-Member			X
France	AFNOR	P-Member	X		
Germany	DIN	P-Member	X *		
Iran, Islamic Republic of	ISIRI	P-Member	X *		
Italy	UNI	P-Member			X *
Japan	JISC	P-Member	X		
Kenya	KEBS	P-Member			
Korea, Republic of	KATS	P-Member	X		
Netherlands	NEN	P-Member	X		
Poland	PKN	P-Member	X		
Portugal	IPQ	P-Member	X		
Russian Federation	GOST R	P-Member	X		
South Africa	SABS	P-Member			
Spain	AENOR	P-Member	X		
Sweden	SIS	P-Member	X *		
Switzerland	SNV	P-Member	X		
United Kingdom	BSI	P-Member	X		
United States	ANSI	P-Member	X		
<b>P-Member TOTALS</b>			16	0	3
Total of P-Members voting: 16					
<b>TOTALS</b>			16	0	3
(*) A comment file was submitted with this vote					

Comments from Voters		
Germany	DIN	P-Member
Iran, Islamic Republic of	ISIRI	P-Member
Italy	UNI	P-Member
Sweden	SIS	P-Member

## Template for comments and secretariat observations

Date: 2014-06-17	Document: ISO/TC156 N5771	Project: ISO/DIS 17224
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MB/NC <sup>1</sup>	Line number	Clause/Subclause	Paragraph/Figure/Table/	Type of comment <sup>2</sup>	Comments	Proposed change	Observations of the secretariat
SE				ge	If it is not necessary ought the references in the text be undated.		done
SE		2		ed	In clause 6.1 h) are ASTM E3-01 and ASTM E407-00 used as normative references, but they are not listed in clause 2	Insert the ASTM standards in clause 2 or delete them as normative references in 6.1	ASTM references changed to undated and inserted in clause 2
SE		2		te	Is it necessary to have dated standards in the standard? Dated references ought to be used only if a specific clause in a dated standard is the reference. General references to standards ought to be undated references.	If possible, it is better to make references to not dated standards if not a special clause is the reference	all normative references changed to undated
lr		4.1		te	The test shall be performed with at least three test pieces of each material to ensure reproducibility of the test results.		No change. WG13 discussed this issue and decided that "at least two" is enough since no mass change measurements are included.
lr		4.2.1	8	te	It is better that the sample ultrasonically degreased in acetone and ethanol for 5 min, respectively, then dried in hot air (40 Or 50 °c) or in desicator.		No change. Acetone was discussed during preparation of ISO 21608 and rejected due to its health impact, therefore isopropanol or ethanol is favoured. Duration and temperature of drying air are less relevant.
DE	1	4.4.1		te	clarify the signification of "inert" (general) and "alumina" (example for inert material)	add "(e.g. alumina)" at the end of the sentence	done
DE		4.4.1	Figure 2	te	clarify the signification of "inert" (general) and "alumina" (example for inert material)	change key item 2 to "Inert support" change figure caption to "Test pieces on an inert support"	done
DE		4.4.1	Figure 3	te	avoid confusion by mentioning both alumina and glass as materials for stacked tubes	delete the word "glass" from the figure caption	done
DE	1	4.4.2	Paragraph 3	ed	use correct wording for catalysis	replace the word "catalysis" by "catalyst"	done
DE	1	4.4.3	Paragraph 3	te	account for possible condensing phases that	replace "100 °C" by "the dew point of possible	done

1 **MB** = Member body / **NC** = National Committee (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by \*\*)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

## Template for comments and secretariat observations

Date: 2014-06-17

Document: ISO/TC156 N5771

Project: ISO/DIS 17224

MB/NC <sup>1</sup>	Line number	Clause/Subclause	Paragraph/Figure/Table/	Type of comment <sup>2</sup>	Comments	Proposed change	Observations of the secretariat
					have a dew point higher than 100 °C	condensing phases"	
Ir		4.5		te	Mass change can be measured by two methods: 1- Mass gain 2- Mass loss  And I think measuring mass gain is more easier than mass loss.		No change. "Mass change" includes both mass gain and mass loss.
SE		4.5.4		ed	The specific sub-clause in ISO 8407 is not necessary to use.	Delete the reference to the sub-clause.	done
DE		6.1.3	Paragraph e)	ed	clarify what to report about test gas	add "Composition of" before "test gas"	done
SE		6.1.4	c)	ed	"Δ" in "Δm" shall be in italics.		done
SE		Annex A.1	1	ed	Delete the year of ISO 8407, because the reference is not to a specific paragraph of ISO 8407.		done
SE		Annex A.2	3	Ed	Delete the year of ISO 8407, because the reference is not to a specific paragraph of ISO 8407.		done
SE		Table A.1 Table A.2 Figure A.1		te	It is misleading to use the same designation in these tables as in ISO 8407, especially as they not are for the same material and the same cleaning procedure in the both standards. In ISO 8407 is C.1 for aluminium and aluminium alloys, C.2 for copper and copper alloys, and E.1 for iron, cast iron and steel. Stainless steels have in ISO 8407 the designation C.7.x and no E designation. Carbone steels have in ISO 8407 the designations C.3.x and E.1.x.	Use other designations in this standard and propose WG 6 to insert these removal procedures in ISO 8407 when the standard is on Systematic Review, which is starting 2014-10-15.	designations adapted so they can be included without change in ISO 8407

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