



RPF Bituminous Binders Specification Task Force

Road Pavements Forum
Salt Rock Hotel & Beach Resort
5 May 2010
Johan Muller / Dennis Rossmann

RPF Specification Task Teams

- What is the purpose of these task teams?
- Who takes part in the task teams?

- Where are we going with specifications?



Me

• Ch

Primary Producers	Simon Coe Jacques van Heerden Mike Zacharias	Chevron SA Sasol Oil Shell Oil Products Africa
Secondary Producers	Kobus Louw Herman Marais Johan Muller Wynand Nortje	Colas SA Much Asphalt Tosas National Asphalt
Clients	Krishna Naidoo Dennis Rossmann Otto Ueckermann	eThekweni Municipality SANRAL GPTRW
Research	Kim Jenkins	University of Stellenbosch
Consultants	Johan O'Connell Joe Grobler Wim Hofsink Terence Milne	CSIR Vela VKE PDNA Avrecon
Contractor	Nico Wilcocks	Roadspan
Facilitators	Trevor Distin Piet Myburgh	Sabita (Chairman) Sabita
Apologies:		
Primary Producers	Ronnie Muthusamy Des O'Brien	Engen Petroleum Masana
Research	Welcome Tlale Benoit Verhaeghe	Engen Petroleum CSIR
Absent:		
Primary Producers	Khamis Khamis John Sibiya	BP SA Total SA

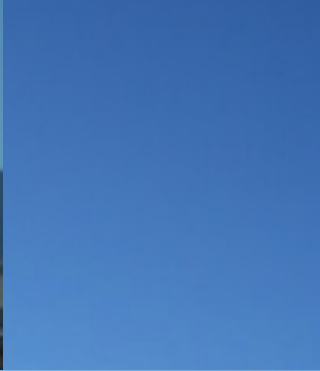


REASON TO CONVENE



SANS 307

Table of changes		
Change No.	Date	Scope
Amdt 1	1984	Amended, in the light of current practice, to allow the use of an alternative test method for the assessment of the performance when subjected to the thin film oven test and to delete IP method 32 as a test method for the determination of ductility at 25 °C.
Amdt 2	1992	Amended in an attempt to define engineering and balanced chemical properties by means of suitable tests and limits.
Amdt 3	1994	Amended to adjust engineering properties and balanced chemical and physical properties by means of suitable tests and limits, and to update the new grade nomenclature.
Amdt 4	1995	Amended to adjust engineering properties and balanced chemical and physical properties by means of suitable tests and limits.
Amdt 5	1997	Amended to add and modify certain grade requirements, and to delete the road grade nomenclature.
Amdt 6	2002	Amended to update a definition, to remove the requirement for ductility and to delete an applicable standard.
Amdt 7	2005	Amended to change the viscosity for the 60/70 penetration grade and to change the performance requirements of all grades for mass change and for increase in softening point.



SANS 308 Cutback Bitumen

STAATSKOERANT, 27 FEBRUARIE 2009

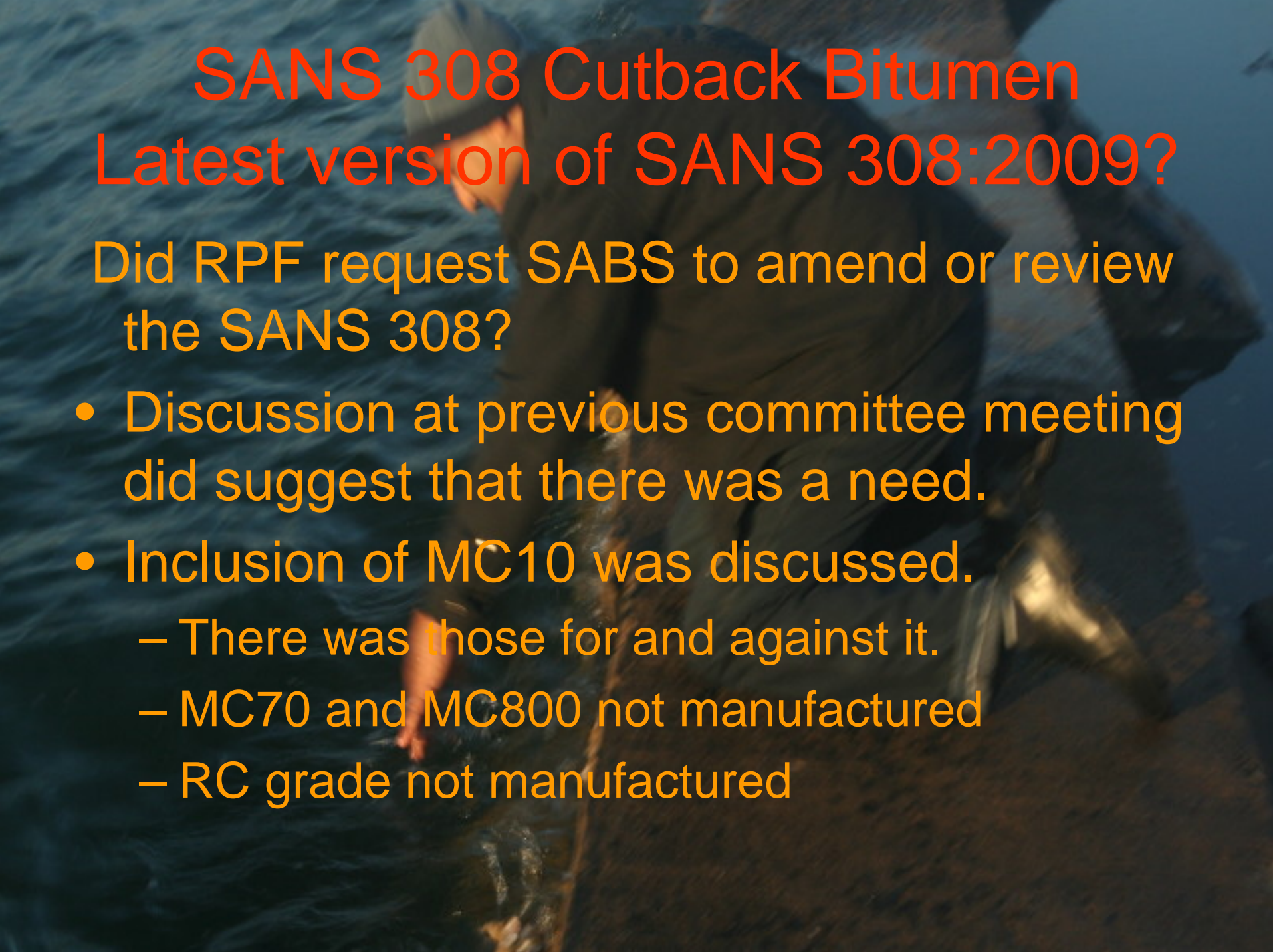
No. 31925 33

Standard No. and year	Title, scope and purport
SANS 25639-1:2009/ ISO 25639-1:2008	<i>Exhibitions, shows, fairs and conventions - Part 1: Vocabulary.</i> Specifies terms and definitions that are commonly used in the exhibition industry. They are grouped into the following four categories: (a) individual and entity, which lists and classifies the various types of people involved in the exhibition industry, (b) type of event, which defines the different types of exhibitions and their related meetings, (c) physical item, which describes the various component sizes of the exhibition, the types of facility and print material, and (d) miscellaneous.
SANS 25639-2:2009/ ISO 25639-2:2008	<i>Exhibitions, shows, fairs and conventions - Part 2: Measurement procedures for statistical purposes.</i> Establishes standard measurement procedures applicable to terms commonly used in the exhibition industry.

SCHEDULE 2: AMENDMENT OF EXISTING STANDARDS

The standards mentioned have been amended in terms of section 16(3) of the Act. The number and date of a standard that has been superseded appear in brackets below the new number. In the case of an amendment issued in consolidated format, the edition number of the new (consolidated) edition appears in brackets below the number of the standard.

Standard No. and year	Title, scope and purport
SANS 198:2009 (Ed. 4.2)	<i>Functional-control valves and safety valves for domestic hot and cold water supply systems. Consolidated edition incorporating amendment No. 2.</i> Amended to change the designation of SABS standards to SANS standards, to update the introductory paragraph to the normative references clause, to update referenced standards, and to update the requirements for materials.
SANS 308:2009 (Ed. 2.2)	<i>Cutback bitumen (Metric units). Consolidated edition incorporating amendment No. 2.</i> Amended to change the designation of SABS standards to SANS standards, and to update the definition of "acceptable", the contact details for ASTM, and a referenced standard.



SANS 308 Cutback Bitumen

Latest version of SANS 308:2009?

Did RPF request SABS to amend or review the SANS 308?

- Discussion at previous committee meeting did suggest that there was a need.
- Inclusion of MC10 was discussed.
 - There was those for and against it.
 - MC70 and MC800 not manufactured
 - RC grade not manufactured

SANS 308 Cutback Bitumen

From: mike.zacharias@shell.com [mailto:mike.zacharias@shell.com]
Sent: 18 January 2010 15:29
To: Muller, Johan (J) (Sastech)
Cc: Van Heerden, Jacques (J) (Fuels Research); Volsteedt, Elri (E)
Subject: RE: Latest version of SANS 308:2009

Yes thanks Johan,

I also have 308:1971.

But doing a search on SANS 308, I see they gazetted some changes in 2009, apparently to do with formally changing from 'SABS' to 'SANS' and some reference to ASTM methods (see attached) . No mention of adding MC10 or anything so I was trying to check. Unfortunately I do not find the people at SANS very helpful.

regards,

Mike Zacharias

SANS 309

Anionic Bitumen Road Emulsions

Table of changes

Change No.	Date	Scope
Amdt 1	1976	Amended to lower the values for the coagulation value of spray-type and pre-mix-type emulsions when mixed with standard chippings.
Amdt 2	1986	Amended to change the method for determining the coagulation value of emulsions when mixed with Portland cement and to introduce a new method for determining viscosity. A note regarding dilution of an emulsion has been added to appendix B.
Amdt 3	2004	Amended to delete reference to the standardization mark scheme, to insert headings for the tables, to delete footnotes regarding standard dolerite chippings being obtainable from the SABS, to delete a footnote regarding information found in the appendices, and to delete reference to SABS 471 and replace it with SANS 50197-1.

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Table of cha

Change No.
Amdt 1
Amdt 2
Amdt 3
Amdt 4
Amdt 5
Amdt 6
Amdt 7



isions

s for viscosity and binder uring practicabilities, and ie bitumen base (and to
type of cationic bitumen
grade (grade 70) of spray on, and to include a ed on coagulation value (our) of stable-mix type
pe cationic bitumen road egate coating – water ion of an emulsion has
70.
rk scheme, to indicate an t content, to correct a le 1, and to delete the rd dolerite chippings and

SANS 749

Road Tar Binders

from Lurgi-Gasification Crudes

Table of changes

Change No.	Date	Scope
Amdt 1	2003	Amended to alter the references to test methods to the applicable standards.
Amdt 2	2002	Amended to change the definition for application of the standard to grade requirements, to add a note to the scope of this standard, to update the applicable standards, and to add a note to the tables in appendix C on the handling and application of the products that are covered by this standard.
Amdt 3	2003	Amended to delete references to asbestos, to correct the number of a test method in table 1 and to delete the footnotes on the obtainability of details of suitable jets and the particular make of oven referred to in STPTC method RT11.

NO LONGER MANUFACTURED
SASOL CLOSED CARBOTAR 30 JUNE 2006

What about SANS 748?


- Does anybody bother with the quality of Road Tar manufactured from High Temperature Coke Oven processes?

SANS 1260

Invert Bitumen Emulsion

Table of changes

Change No.	Date	Scope
Amdt 1	2004	Amended to delete reference to the standardization mark scheme, to change the reference to ASTM D88 and to delete a page footnote referring to the use of appendices.



Modified Binders

- TG1 Guidelines are currently serving the purpose of “specification”
- Includes product used in Asphalt, Spray and Crack Sealing Applications:
 - Bitumen Rubber
 - SBS, SBR,
 - Plastomers
 - EVA,
 - Hydrocarbon Modifiers
 - Modified emulsions
- Test Methods will be written in SANS specification format.
- Spec limits to be reviewed

New Kids round the block

- Emulsion primes
- So-called “Environmental” primes
- Many products, different standards.
- Proprietary Products



