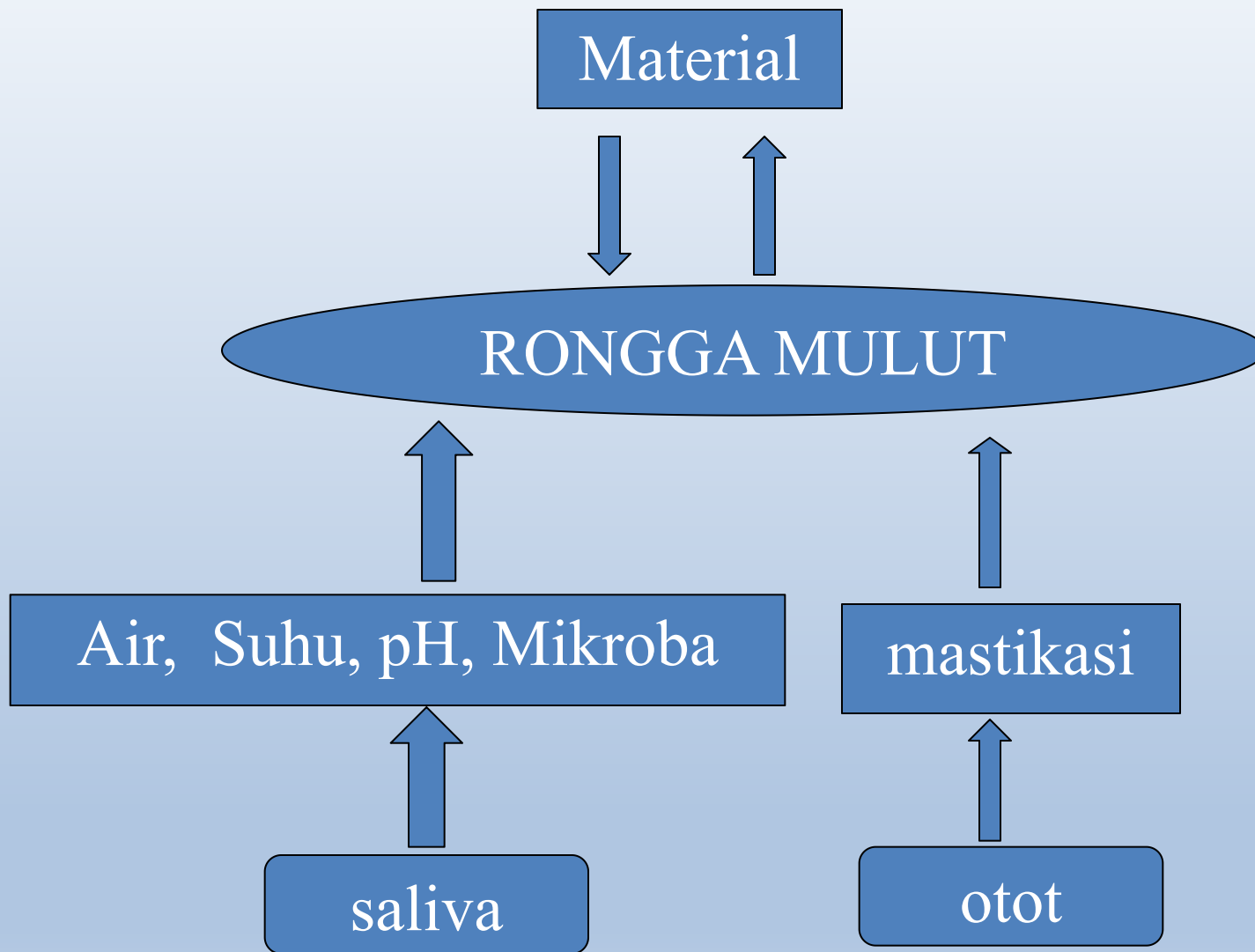


2. ANALISIS PEMILIHAN MATERIAL





ANALISIS MASALAH

- Tumpatan anterior/posterior
- Apakah ditempatkan daerah tekanan tinggi
- Kavitas dalam/dangkal

Syarat Material KG

1. Pengaruh material thd lingkungan.
2. Sifat interface antara material dgn jar.rongga mulut.
3. Pengaruh lingkungan rongga mulut thd material.
4. Sifat estetis.
5. Sifat fisik lainnya.
6. Material mudah & nyaman digunakan.

Proses pemilihan Material

1. Mempertimbangkan persyaratan yg diperlukan :
Dibuat daftar persyaratan material yg memenuhi kebutuhan yg ada.
2. Mempertimbangkan material yg tersedia & sifatnya dgn membandingkan kebutuhan yang ada.
3. Dipengaruhi :
 - Kemudahan penanganan
 - Ketersediaannya
 - harga

EVALUASI MATERIAL

1. Spesifikasi standar
2. Evaluasi laboratorium
3. Uji klinis

3. STANDAR & SPESIFIKASI MATERIAL

BADAN STANDAR UNTUK DENTAL BIOMATERIAL

1. FDI (*Federation Dentaire Internationale*)
2. ISO (*International Organization for Standardization*)
3. ADA (*American Dental Association*)
diakreditasi : ANSI (*American National Standard Institute*)
4. CEN (*Comite Europeen dee Normalisation*)
5. BSN (Badan Standar Nasional) mengeluarkan SNI (Standar Nasional Indonesia)



International Organization for Standardization

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Standards

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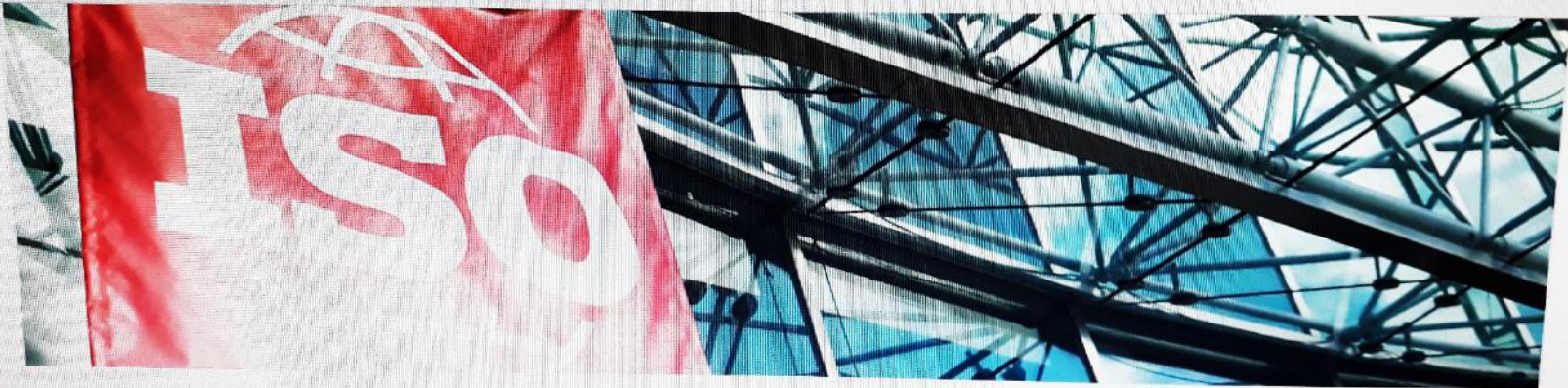
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What we do

Structure

Members

News



All about ISO

About ISO

ISO is an independent, non-governmental international organization with a membership of 161 national standards bodies.

Through its members, it brings together experts to share their knowledge and develop voluntary

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International Organization for Standardization

ADA American Dental Association®

America's leading advocate for oral health

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Science and Research

Standards Committee on Dental Products

Standards Committee on Dental Informatics

US TAG for ISO/TC 106 Dentistry

Dental Content Committee - DECC

Dental Standards

Dental standards ensure that everyone is on the same page—those who design and manufacture dental products and the dentists who use them. Through comprehensive analysis, the ADA establishes baseline standards and technical recommendations for almost every tool of modern dentistry, from radiographic systems to sealants to manual toothbrushes.

Our mission is to ensure the highest level of patient safety and professional satisfaction through the publication of clear industry standards for both dental products and dental informatics. The ADA is the accredited dental standards body of the American National Standards Institute (ANSI) and also designated the official United States representative for the International Organization for Standardization (ISO) Technical Committee 106 Dentistry (TC 106).

Standards and Standards Administration



Tested. Trusted.

ADA News

ADA-developed standards help protect dentists, ensure safety of patients

New dental standards are developed

The infographic depicts a circular process for developing dental standards. It starts with 'Standards Development' at the top, moving through 'Standards Review', 'Standards Approval', and 'Standards Implementation'. A central globe is surrounded by icons representing various dental products and services. Text around the globe describes the rigorous process of developing standards to ensure patient safety and professional satisfaction.

Standards Development

The process begins with a proposal for a new standard or revision of an existing one. This proposal is then reviewed by a committee of experts in the field. The committee members evaluate the proposal based on its technical merit, safety, and the need for the standard. Once approved, the standard is published and implemented.

Standards Review

Standards are not static; they are regularly reviewed to ensure they remain relevant and up-to-date. The ADA's Standards and Standards Administration oversees this process, ensuring that standards reflect the latest advances in dental technology and practice.

Standards Approval

Once a standard has been developed and reviewed, it must be approved by the American National Standards Institute (ANSI). The ADA is the accredited dental standards body of ANSI, and its standards are also designated as the official United States representative for the International Organization for Standardization (ISO) Technical Committee 106 Dentistry (TC 106).

Standards Implementation

Finally, the approved standard is implemented. This involves educating dental professionals about the new standard and ensuring that they are aware of the requirements. The ADA provides resources and support to help dental professionals understand and implement the new standards.



European Committee for Standardization

YOU & CEN

WHO WE ARE

MEMBERS

WHAT WE DO

WORK AREA

MEETING FACILITIES

NEWS

SEARCH STANDARDS

Our Ambitions

Our role in Europe

Our global role

CEN community

Governing structure

CEN-CENELEC Management Centre

Our helpdesks

CEN in figures

Home > Who we are

Who we are

CEN, the European Committee for Standardization, is an association that brings together the National Standardization countries.

CEN is one of three European Standardization Organizations (together with CENELEC and ETSI) that have been of European Union and by the European Free Trade Association (EFTA) as being responsible for developing and defining European level.

CEN provides a platform for the development of European Standards and other technical documents in relation to materials, services and processes.

CEN supports standardization activities in relation to a wide range of fields and sectors including: air and space, consumer products, defence and security, energy, the environment, food and feed, health and safety, healthcare, ICT, pressure equipment, services, smart living, transport and packaging.

> [Learn more about our fields of work](#)



SEKILAS INFO

PRATAMA DI LINGKUNGAN BADAN STANDARDISASI NASIONAL

5 Prof. Purwiyatno Hariyadi memberikan sambutan pada pembukaan

A A

Tentang BSN

Selasa, 28 November 2017

UNDANG-UNDANG RI NOMOR 20 TAHUN 2014 TENTANG STANDARDISASI DAN PENILAIAN KESESUAIAN DISAHKAN DI JAKARTA PADA TANGGAL 17 SEPTEMBER 2014, DIUNDANGKAN MELALUI LEMBARAN LEMBARAN NEGARA RI TAHUN 2014 NOMOR 216, TAMBAHAN LEMBARAN NEGARA RI NOMOR 5584

Undang-undang Nomor 20 Tahun 2014 tentang Standardisasi dan Penilaian Kesesuaian, bertujuan untuk:

- A. meningkatkan jaminan mutu, efisiensi produksi, daya saing nasional, persaingan usaha yang sehat dan transparan dalam perdagangan, kepastian usaha, dan kemampuan pelaku usaha, serta kemampuan inovasi teknologi;
- B. meningkatkan perlindungan kepada konsumen, pelaku usaha, tenaga kerja, dan masyarakat lainnya, serta negara, baik dari aspek keselamatan, keamanan, kesehatan, maupun pelestarian fungsi lingkungan hidup;
- C. meningkatkan kepastian, kelancaran, dan efisiensi

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Ambon (AR, 2018)

SIFAT SIFAT UNTUK KARAKTERISASI BIOMATERIAL

1. Sifat Fisik
2. Sifat Mekanis
3. Sifat Kimiawi
4. Sifat Biologis

SIFAT SIFAT UNTUK KARAKTERISASI BIOMATERIAL

SIFAT MATERIAL : selama *mixing, manipulation,*
dan *setting* melibatkan

1. Sifat reologi
2. Cara perubahannya

Sebagai fungsi waktu selama *setting*.

Klasifikasi sifat material

1. Selama penyimpanan
2. Selama pencampuran
3. Selama *setting*
4. Material *set*

Sifat selama pencampuran

- Metoda penakaran
- Waktu pencampuran
- Viskositas

Faktor yang mempengaruhi Pencampuran material

1. Afinitas komponen kimia
2. Viskositas
3. Suhu kamar
4. Metode penakaran
5. Metode pencampuran

Klasifikasi sifat material

3. Selama setting

- a. Kecepatan set
- b. Waktu kerja
- c. Waktu setting
- d. Kenaikkan suhu saat setting
- e. Perubahan dimensi

Selama setting

- Kecepatan set
- Waktu kerja : wkt yg tersedia untuk mencampur & memanipulasi material
- Waktu setting : wkt yg diperlukan material untuk mencapai tingkat ketegaran atau elastisitas tertentu
- Kenaikan suhu saat setting
- Perubahan dimensi

DAFTAR PUSTAKA

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