

# UNISEAL®

## Aramid fiber sheets and gaskets.

### WS 3400

#### DESCRIPTION

IDT-UNISEAL® 3400 is a universal non-metallic gasket - sheet material which is high-strength and very homogeneously compound made from high quality aramid fibers, inorganic fillers and optimised elastomers; it does not contain any physiologically harmful substances. UNISEAL® has a separating top [TD 2] with a high coefficient of friction on both surfaces as standard. This makes removal easier.

#### PROPERTIES

- UNISEAL® 3400 has high tensile, pressure and shear strength
- Can be applied generally for different chemical stresses
- Easy to dismantle even after exposure to temperatures
- Temperature range from -50 °C up to approx. 150 °C [200 °C possible upon prior consultation]
- Very good media resistance against mineral and synthetic oils and greases, alcohols, fuels, solvents, liquid gases, anti-freeze, salt solutions, weak acids and bases [resistance chart available upon request]
- Can be used for drinking water and food applications as well as to seal high-purity products such as raw materials for varnishes
- Complies with TA Luft 2002 [VDI 2440/2200] leakage requirements
- Asbestos free, does not present a health risk, colour neutral FDA-conform
- Scratch resistant, sturdy surface, easy to handle

#### APPLICATIONS

- Non-metallic gaskets for pipeline flanges, device and container flanges, pumps and valves
- For bolt valves with very small ring face, e.g. in gas and warm water heaters, in solar plants, in heating radiators and connections, in drives, cooling and pneumatic compressors, liquid gas and cooling plants
- No special requirements for flange sealing surfaces
- Also suitable for use in drinking water and food applications as well as to seal connections during the production or processing of high-purity products such as paints, varnishes and pharmaceutical products due to physiological harmlessness
- For designs with inner eyelets, used for increased requirements for purity and blow-out resistance [technical tightness]

#### PRODUCT RANGE

Technical delivery conditions as per DIN 28091

- Sheets
  - Dimensions: 1500 x 1500 mm [standard format], 1500 x 3000 mm, 1500 x 4500 mm
  - Available thicknesses: 0.3; 0.5; 0.75 ;1.0; 1.5; 2.0; 3.0, 4. and 5.0 mm
- Non-metallic gaskets
  - Dimensions: as per DIN EN 1514-1, ASME/ANSI, DIN 7603
  - Non-standard
  - Made from segments
  - Frames

Additionally: [IDT Profile Overview | FD Series](#)

#### ADDITIONAL DESIGNS

- Envelope gaskets made from TFM™ with non-metallic insert



AFM 34 CO ME

DIN 28091-2 FA-A1-0

DIN 28091

CTO

DIN 280

AFM 34

DIN 28091-2 FA-A1-0

REINZ

AFM 34 CO ME

DIN 28091-2 FA-A1-0

AFM 34 CO ME

# AFM 34 CO ME® & UNISEAL®.

Product designation	Non-metallic gasket, AFM 34 CO ME®	Non-metallic gasket with/without inner eyelet, UNISEAL®
Product name	WS 3133 IB	WS 3400
Product image		
Profile No.	FD10 	FD01  FD10 
Features	<p>Sealing system with optimised inner eyelet [1.4571] complies with TA Luft and VDI 2290<sup>1</sup>, has high pressure stability, high tensile, pressure and shear strength and very high gas tightness.</p> <p>Scratch resistant, sturdy surface, easy to handle, easy to dismantle, blow-out resistant sealing system. Resistant against a large number of chemicals, does not present a health risk, FDA-conform.</p>	<p>The sealing system complies with TA Luft and has high pressure stability, high tensile, pressure and shear strength and very high gas tightness. High blow-out resistance for design with optimised inner eyelet [FD10].</p> <p>Scratch resistant, sturdy surface, easy to handle, easy to dismantle, resistant against a large number of chemicals, does not present a health risk, FDA-conform.</p>

## OPERATIONAL DATA

Pressure	Max. 100 bar	Max. 70 bar <sup>2</sup>   Max. 100 bar <sup>2</sup>
Temperature	-50 °C to 200 °C <sup>3</sup> [continuous use: max. 150 °C]	-50 °C to 200 °C <sup>3</sup> [continuous use: max. 150 °C]

## APPROVALS

TA Luft 2002 [VDI 2440/2200]	<b>x</b>	<b>x</b>
BAM oxygen		<b>x</b>
BAM EO/PO [Ethylene-/Propylene oxide]		
DVGW [DIN 3535-6]	<b>x</b>	<b>x</b>
KTW-guideline		<b>x</b>
Fire Safe Test		<b>x</b>
FDA		<b>x</b>
EG 1935/2004		<b>x</b>
Blow-out resistance		<b>x</b>
Germanischer Lloyd	<b>x</b>	<b>x</b>
Features	VP 401, HTB	HTB, ÖVGW, SVGW, VP 401, WRAS, W270

<sup>1</sup> Complies with VDI 2290 only in combination with a leakage certificate as per EN 1591-1

<sup>2</sup> Max. pressure and max. temperature should not occur at the same time | <sup>3</sup> upward 150°C please consult the manufacturer