CENTELLEN® HD 3822

SPECIAL GRADE FOR HIGH PRESSURES WITH GOOD CREEP RESISTANCE AND GOOD GAS TIGHTNESS (DIN 28091 FA – MA1/-0)

TECHNICAL CHARACTERISTICS

This is a further development of our proven tested CENTELLEN® WS 3820. CENTELLEN® HD-3822 was developed particularly for applications that would mechanically overburden our CENTELLEN® WS 3820 grade. Due to a similar structure, the resistance data for CENTELLEN® WS 3820 can be assumed for CENTELLEN® HD 3822 as well. The material basis of CENTELLEN® HD 3822 consits of high grade aramide and anorganic fibres as well as mineral reinforcement materials bonded with NBR rubber. This combination of raw materials gives the following material characteristics:

- High compressive strength
- Very low gas leakage
- Very good oil resistance
- Good tensile strength

CENTELLEN® HD 3822 is produced according to the calender process and is given a thin anti-adhesive surface when produced. The chemical properties are not affected by this process.

APPLICATIONS

Due to these material characteristics, seals made of CENTELLEN® HD 3822 can be used wherever extreme conditions in the form of higher pressure and medium temperature strain exist. Typical applications are pipes in the general chemical industry, the systems, apparatures and machines building industry, in the sanitary industry and in the food and beverage industry.

CHEMICAL RESISTANCE

Resistant to

- Hydrocarbons such as oil or solvents,
- Alcohols, glycols, aqueous solutions, water and steam

up to 250°C,

- Weak alkaline solutions and organic acids

Partially resistant to

- Ketones and esters
- Chlorinated solvents,
- Strong alkaline solutions and inorganic acids

Not resistant to

- Hydrofluoric acid and concentraded nitric acid

RELEASES

BAM, WrC, KTW, TA-LUFT, DVGW, W270, VP401 5BAR

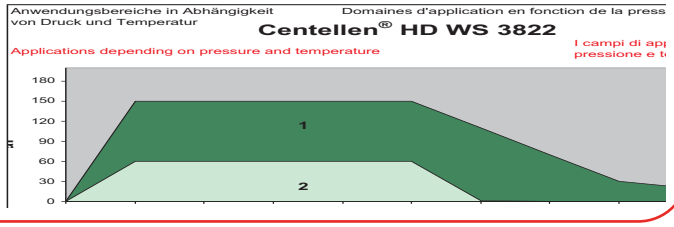
STANDARD VERSION

Green-yellow,
Anti adhesive coating OBGY

Standard delivery formats 1000 x 1500 mm
1500 x 1500 mm
1500 x 3000 mm

Other formats on enquiry, thickness 0,3 up to 6 mm

APPLICATIONS DEPENDING ON PRESSURE AND TEMPERATURE



TECHNICAL DATA (2 mm)	VALUE	UNIT	NORM
Density	1,8	g/cm³	DIN 28090 (2)
Cold heading value (KSW)	4,8	%	DIN 28090 (2)
Cold resilience value (KRW)	2,0	%	DIN 28090 (2)
Warm setting value (WSW)	16,9	%	DIN 28090 (2)
Warm resilience value (WRW)	2,2	%	DIN 28090 (2)
Spec. leakage rate	0,04	mg/s*m	DIN 28090 (2)
Gas tightness	0,5	cm³/min	DIN 3745
	0,6	cm³/min	DIN 3535/6
Compressive strength (16h, 175°C)	35	N/mm²	DIN 52913
Compressive strength (16h, 300°C)	25	N/mm²	DIN 52913
Tensile strength transverse	14	N/mm²	DIN 52910
Max. surface pressure (gas/liquides)	20 / 10	N/mm²	DIN 28090
Max. surface pressure (23°C, 200°C, 250°C)	> 90 / 60 / 60	N/mm²	DIN 28090
Min. temperature	- 200	°C	
Max. operating temperature	250	°C	
Max. temperature (temporary)	400	°C	
Max. pressure	150	bar	