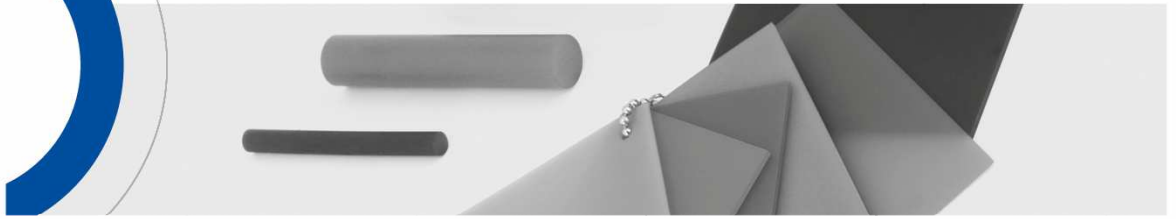


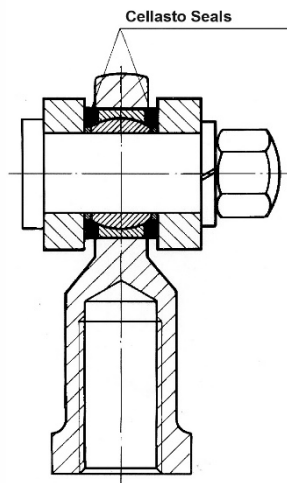
- Seals and stamped parts
- Turned and milled parts
- Cast and moulded parts
- Water jet cut parts
- Special parts sealing technology
- Semi-finished product range**
- Special parts and more



## Cellasto® - Seals (CD)

### for Radial Spherical Plain Bearings and Rod Ends

Radial spherical plain bearings or rod ends are always used when either tilting and swivelling movements (for instance with pendulum bearings) are to be transferred or when the position of a shaft has to be adjusted within its casing subsequent to installation. They consist of an outer ring with a hollow spherical inside contour and an inside ring with a spherical outer shape.



The dimensions of standard spherical plain bearings are governed by the DIN/ISO 12240-1 standard. Depending on the load required different models are available in steel on steel and hard chrome on plastic.

While high-performance steel spherical bearings need regular lubricating, plastic coated bearings can be used maintenance-free.

Increased wear due to the soiling of the bearings leads to premature destruction of the fine machined slide face but can be avoided using a suitable sealing system. Here Cellasto seals (CD) have proven to work well over many years' operation.

The range includes all dimensions specified in the DIN/ISO 12240-1, dimension series E.

The cellular polyurethane (PU) elastomer Cellasto is used here as it boasts excellent physical properties like low permanent set and correspondingly high rebound resilience, good cold elasticity plus high resistance to oil, grease and petrol.

Cellasto seals (CD) come in quality MH 24-45 (density = 450 kg/m<sup>3</sup>); on request harder or softer gaskets are also available.

In order to ensure constant sealing of bearings the seals must be pre-stressed before fitting. Here compression should reach a maximum of 35%. In subsequent operation the seals can then be exposed to up to approx. 70% compression.

Cellasto has a partially open-cell structure. This means it can be impregnated with oil or grease thereby serving as a lubricant store for prolonged lubricating intervals.

#### *Sales partner for Cellasto®*

Karl Späh GmbH & Co. KG, Scheer, Germany is the worldwide sales partner for CD seals of BASF Polyurethanes GmbH, Lemförde, Germany.

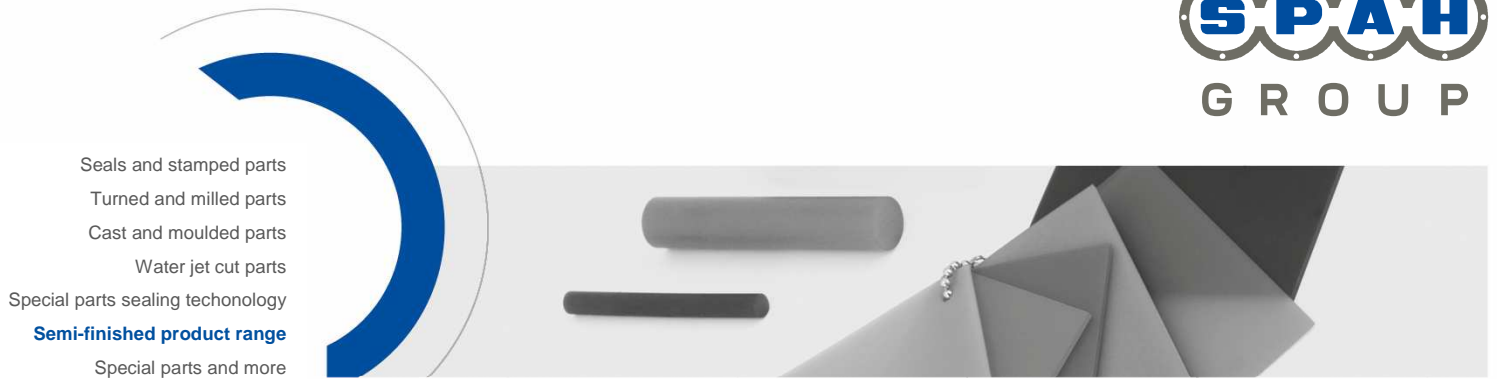
For further information, please do not hesitate to contact our customer service team.

® = registered trademark of BASF Polyurethanes GmbH

Issue: 07\_2020

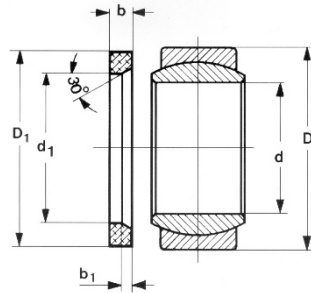
#### **Karl Späh GmbH & Co. KG**

Industriestraße 4 - 12  
D-72516 Scheer / GERMANY  
Phone: +49 (0) 7572/602-0  
Telefax: +49 (0) 7572/602-167  
info@spaeh.de  
www.spaeh.de



Seals and stamped parts  
 Turned and milled parts  
 Cast and moulded parts  
 Water jet cut parts  
 Special parts sealing technology  
**Semi-finished product range**  
 Special parts and more

## Technical information



### Cellasto-Seals for Radial Spherical Plain Bearings

- DIN/ISO 12240-1
- Dimension series E

Seal Letter Symbol	Nominal Size	d	D	d 1	D 1	b	b1
CD 4	4	4	12	6.5	10	3	1.5
CD 5	5	5	14	8	12	3	1.5
CD 6	6	6	14	8	12	3	1.5
CD 8	8	8	16	10.5	14	4	2
CD 10	10	10	19	13.5	17	4	2
CD 12	12	12	22	15	20	4	2
CD 15	15	15	26	18.5	24	4	2
CD 17	17	17	30	21	28	5	2.5
CD 20	20	20	35	24.5	33	5	2.5
CD 25	25	25	42	29.5	40	5	2.5
CD 30	30	30	47	34.5	45	5	2.5
CD 35	35	35	55	40	53	6	3
CD 40	40	40	62	45	60	6.5	3.5
CD 45	45	45	68	51	65	7	3.5
CD 50	50	50	75	56	72	7.5	3.5
CD 60	60	60	90	67	87	9	4
CD 70	70	70	105	78	101	9	4
CD 80	80	80	120	89.5	116	10	5
CD 90	90	90	130	98	126	12	6
CD 100	100	100	150	110	145	16.5	8
CD 110	110	110	160	122	155	16.5	8
CD 120	120	120	180	130	173	15	7.5
CD 140	140	140	210	156	202	16	8
CD 160	160	160	230	172	222	18	9
CD 180	180	180	260	200	250	18	9
CD 200	200	200	290	215	280	25	12
CD 220	220	220	320	240	310	25	12
CD 240	240	240	340	266	328	25	12
CD 260	260	260	370	290	358	25	12
CD 280	280	280	400	314	390	25	12
CD 300	300	300	430	337	418	28	14

The quoted values are based on a limited number of inspections on standard test specimens produced in the laboratory. The data obtained from finished parts may differ from the above values depending on part geometry. Referenced standards correspond to the version number of the data sheet provided by our raw material supplier. It is the buyer's responsibility to check prior to use whether the product is suitable for his intended purpose, including any potential application-specific effects. Our recommendations are given to the best of our knowledge. They are however without obligation, and we cannot accept any liability for damage or disadvantages of any kind, including in relation to third-party property rights.

#### Karl Späh GmbH & Co. KG

Industriestraße 4 - 12  
 D-72516 Scheer / GERMANY  
 Phone: +49 (0) 7572/602-0  
 Telefax: + 49 (0) 7572/602-167  
 info@spaeh.de  
 www.spaeh.de

Issue: 07\_2020

**We are looking forward to your feedback. SPÄH group – Your partner in sealing technology**