

Datasheet Sliding Bearings

	Material				Availability				Physical Properties		Mechanical Properties						Thermal Properties					
	Material	Min. inside diameter	Max. outside diameter	Length standard	Density	Max. swell in water at 20 °C	Compressive strength static	Compressive strength dynamic	Module of elasticity	Tensile strength	Shear strength	Impact strength	Hardness rockwell	Module of elasticity	Tensile strength	Shear strength	Impact strength	Hardness rockwell	Thermal expansion	Min. working temperature	Max. working temperature	Intermittent working temperature
Test Standard					ASTM D792	ASTM D570	ASTM D695	ASTM D695	ASTM D695	ASTM D3410	ASTM D3410	ASTM D256	ASTM D785	ASTM D695	ASTM D3410	ASTM D3410	ASTM D256	ASTM D785	ASTM D696			
Unit		mm	mm	mm	g/cm ³	%	MPa	MPa	MPa	MPa	MPa	kJ/m ²	HRM/HRC	MPa	MPa	MPa	kJ/m ²	HRM/HRC	*10 ⁻⁵ /°C	°C	°C	°C
AS RS20	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.24	0.1	330	85	2300	60	80	50	98 ⁽¹⁾	2300	60	80	50	98 ⁽¹⁾	7	-40	120	140
AS RS21	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.23	0.1	320	85	2250	60	80	50	98 ⁽¹⁾	2250	60	80	50	98 ⁽¹⁾	7	-40	120	140
AS RS30	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.24	0.1	330	85	2300	60	80	50	98 ⁽¹⁾	2300	60	80	50	98 ⁽¹⁾	7	-40	120	140
AS RS31	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.23	0.1	320	85	2250	60	80	50	98 ⁽¹⁾	2250	60	80	50	98 ⁽¹⁾	7	-40	120	140
AS RS40	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.21	0.1	330	85	2280	60	80	50	98 ⁽¹⁾	2280	60	80	50	98 ⁽¹⁾	7	-40	120	140
AS RS41	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.2	0.1	320	85	2240	60	80	50	98 ⁽¹⁾	2240	60	80	50	98 ⁽¹⁾	7	-40	200	220
AS CM20	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.4	1	350	100	3000	60	80	50	115 ⁽¹⁾	3000	60	80	50	115 ⁽¹⁾	2	-40	120	140
AS RS50	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.11	0.1	330	85	2000	60	80	50	98 ⁽¹⁾	2000	60	80	50	98 ⁽¹⁾	7	-40	80	90
AS RS60	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.91	0.3	600	500	20000	60	80	50	98 ⁽¹⁾	20000	60	80	50	98 ⁽¹⁾	7	-40	205	280
AS RS80	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.88	0.2	800	700	28000	-	-	-	-	28000	-	-	-	-	-	-	-	-
AS MOSTUF NW(T)	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	2	0.1	240	140	12000	-	-	-	95 ⁽¹⁾	12000	-	-	-	95 ⁽¹⁾	13	-100	160	180
AS PC04	Composite	16	2000 (bigger diameter possible made of arced segments)	500 (longer on request)	1.48	0.1	450	110	6000	-	-	-	108 ⁽¹⁾	6000	-	-	-	108 ⁽¹⁾	-	-40	180	200
AS DF13	Composite	On request	On request	On request	2.6	0.1	30	26	-	13	-	20	-	-	13	-	20	-	8	-40	120	-
AS DF14	Composite	On request	On request	On request	2.6	0.1	35	30	-	17	-	15	-	-	17	-	15	-	10	-40	120	-
AS TEMPG	Thermoplastic	8	On request	On request	1.4	0.1	70	40	3000	-	-	-	-	3000	-	-	-	-	-	-	-	-
AS TEMU	Steel	8	305	120 (longer on request)	-	-	250	60	-	-	-	-	-	-	-	-	-	-	-	-200	280	280
AS TEMX	Steel	8	305	120 (longer on request)	-	-	250	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS TEBRM10	Bronze	8	305	120 (longer on request)	8.8	-	100	60	-	460	-	-	82 ⁽¹⁾	-	460	-	-	82 ⁽¹⁾	18	-	150	160
AS TEBRM80	Bronze	8	305	120 (longer on request)	8.8	-	100	60	-	460	-	-	83 ⁽¹⁾	-	460	-	-	83 ⁽¹⁾	18	-	150	160
AS TEBMT31	Bimetal	8	305	120 (longer on request)	-	-	100	60	-	755	-	-	-	-	755	-	-	-	-	-40	200	200
AS TEHT	Steel	8	305	120 (longer on request)	-	-	650	100	-	-	-	-	48 ⁽²⁾	-	-	-	-	48 ⁽²⁾	-	-	-	-

(1): Hardness rockwell: HRM.
(2): Hardness rockwell: HRC.
(3): Coefficient of friction dynamic: oil/grease.

Datasheet Sliding Bearings						
	Friction Properties					
	Coefficient of friction dynamic	Max. sliding speed	Max. pv load dry	Max. pv load oil lubricated	Max. pv load regular greased	Wear factor
Test Standard	Pin-on-ring	Pin-on-ring	Pin-on-ring	Pin-on-ring	Pin-on-ring	Pin-on-ring
Unit	Dry against steel	m/s	MPa*m/s	MPa*m/s	MPa*m/s	*10 ⁻⁹ m ² /N
AS RS20	0.1-0.14	2	0.2	0.35	0.6	-
AS RS21	-	2	0.2	0.35	0.6	-
AS RS30	-	2.2	0.23	0.4	0.5	-
AS RS31	-	2.2	0.23	0.4	0.5	-
AS RS40	-	2	0.25	0.5	0.7	1.3
AS RS41	-	2	0.25	0.5	0.7	-
AS CM20	-	2	1.5	2	2.5	-
AS RS50	0.07	2	-	-	-	-
AS RS60	0.3	2	-	-	-	-
AS RS80	-	-	-	-	-	-
AS MOSTUF NW(T)	0.08	0.2	1.8	-	-	-
AS PC04	0.13	-	-	-	-	-
AS DF13	0.11	-	-	-	-	-
AS DF14	0.14	-	-	-	-	-
AS TEMPG	0.08-0.2	≤1	0.6	-	-	-
AS TEMU	0.02-0.2 ⁽³⁾	5	-	-	-	-
AS TEMX	-	-	-	-	-	-
AS TEBRM10	0.05-0.2 ⁽³⁾	2	-	-	2.8	-
AS TEBRM80	0.05-0.2 ⁽³⁾	2	-	-	2.8	-
AS TEBMT31	0.03-0.16 ⁽³⁾	1.5	3.25	-	-	-
AS TEHT	0.18 ⁽³⁾	0.1	-	-	-	-

(1): Hardness rockwell: HRM.
(2): Hardness rockwell: HRC.
(3): Coefficient of friction dynamic: oil/grease.