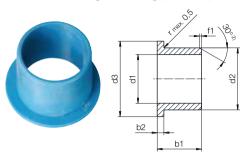
iglidur® A181 | Product range

Flange bearing (Form F)



2) Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

Ø > 30Ø 1-6 f [mm]: 1.2

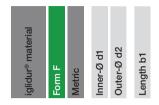
Dimensions [mm]

d1	d1-	d2	d3	b1	b2	Part No.
	Tolerance ³⁾		d13	h13	-0.14	
6.0	+0.020	8.0	12.0	4.0	1.0	A181FM-0608-04
6.0	+0.020	8.0	12.0	6.0	1.0	A181FM-0608-06
6.0	+0.000	8.0	12.0	8.0	1.0	A181FM-0608-06
8.0		10.0	15.0	5.5	1.0	A181FM-0810-05
8.0		10.0	15.0	7.5	1.0	A181FM-0810-07
8.0		10.0	15.0	9.5	1.0	A181FM-0810-09
8.0	+0.025	10.0	15.0	10.0	1.0	A181FM-0810-10
10.0		12.0	18.0	7.0	1.0	A181FM-1012-07
10.0	+0.083	12.0	18.0	9.0	1.0	A181FM-1012-09
10.0		12.0	18.0	10.0	1.0	A181FM-1012-10
10.0		12.0	18.0	12.0	1.0	A181FM-1012-12
10.0		12.0	18.0	17.0	1.0	A181FM-1012-17
12.0		14.0	20.0	7.0	1.0	A181FM-1214-07
12.0	_	14.0	20.0	9.0	1.0	A181FM-1214-09
12.0		14.0	20.0	12.0	1.0	A181FM-1214-12
12.0	+0.032	14.0	20.0	17.0	1.0	A181FM-1214-17
14.0	+0.102	16.0	22.0	12.0	1.0	A181FM-1416-12
14.0		16.0	22.0	17.0	1.0	A181FM-1416-17
15.0		17.0	23.0	9.0	1.0	A181FM-1517-09
15.0		17.0	23.0	12.0	1.0	A181FM-1517-12

³⁾ After press-fit. Testing methods ▶ Page 57



A181 F M-0608-04



Dimensions according to ISO 3547-1 and special dimensions



Imperial dimensions available

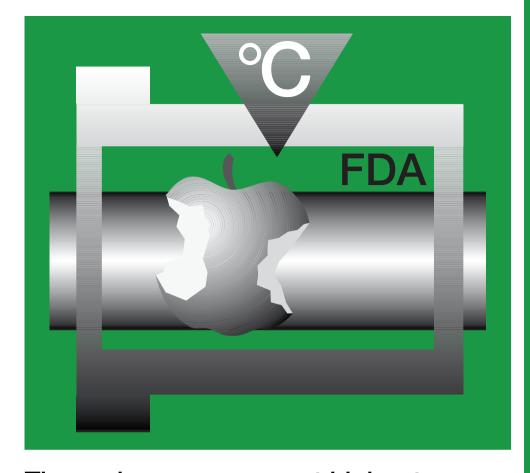
From page 1425

d1	d1-	d2	d3	b1	b2	Part No.
	Tolerance ³)	d13	h13	-0.14	
15.0		17.0	23.0	17.0	1.0	A181FM-1517-17
16.0		18.0	24.0	12.0	1.0	A181FM-1618-12
16.0	+0.032	18.0	24.0	17.0	1.0	A181FM-1618-17
18.0	+0.102	20.0	26.0	12.0	1.0	A181FM-1820-12
18.0		20.0	26.0	17.0	1.0	A181FM-1820-17
18.0		20.0	26.0	22.0	1.0	A181FM-1820-22
20.0		23.0	30.0	11.5	1.5	A181FM-2023-11
20.0		23.0	30.0	16.5	1.5	A181FM-2023-16
20.0		23.0	30.0	21.5	1.5	A181FM-2023-21
25.0		28.0	35.0	11.5	1.5	A181FM-2528-11
25.0		28.0	35.0	16.5	1.5	A181FM-2528-16
25.0	+0.040	28.0	35.0	21.5	1.5	A181FM-2528-21
30.0	+0.040	34.0	42.0	16.0	2.0	A181FM-3034-16
30.0	+0.124	34.0	42.0	26.0	2.0	A181FM-3034-26
35.0		39.0	47.0	16.0	2.0	A181FM-3539-16
35.0		39.0	47.0	26.0	2.0	A181FM-3539-26
40.0		44.0	52.0	30.0	2.0	A181FM-4044-30
40.0		44.0	52.0	40.0	2.0	A181FM-4044-40
45.0		50.0	58.0	50.0	2.0	A181FM-4550-50



Do you need another length, other dimensions or tolerances? You need a particular design or alternative for your application? Please call us. igus® listens to your needs and provides you a solution very quickly.





The endurance runner at higher temperatures in the food sector – iglidur® A350

Compliant with EC directive 10/2011 EC

FDA-compliant

For use with temperatures up to +180°C

For medium and high loads

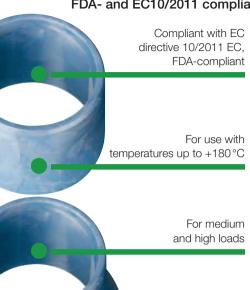
Equally good for both oscillating and rotating applications

Lubrication and maintenance-free

Standard range from stock



FDA- and EC10/2011 compliant



An universal bearing for use in the area of food and pharmaceutical industries. Composition of FDAconform materials allows the use in areas where due to the contact with food other bearings cannot be used. With good tribological and mechanical properties, iglidur® A350 bearings are suitable for general purpose use in food machinery.



When to use it?

- When FDA-compliance is required
- If wear-resistance and FDA-compliance is necessary at high loads
- If the bearing is use in acid environment



Equally good for

both oscillating and

rotating applications

When not to use it?

- When temperatures are continuously greater than +180°C
- ▶ ialidur® A500, page 355
- When the maximum abrasion resistance is necessary
- ▶ iglidur® J, page 141
- When a cost-effective FDA bearing is required
- ▶ iglidur® A200, page 371
- ▶ iglidur® A180, page 363
- For high speeds
- ▶ iglidur® J, page 141

Typical application areas

- Medical technology

- Food industry
- Beverage technology

Ø 4-50 mm

More dimensions upon request

Available from stock

Block pricing online

Max. +180°C

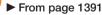
Min. -100°C

Detailed information about delivery time online.

No minimum order value. From batch size 1.



Imperial dimensions available





Online product finder

www.igus.eu/iglidur-finder



iglidur® A350 material complies with EC Directive 10/2011 EC and also with FDA (Food and Drug Administration) specifications for repeated contact with food.

iglidur® A350 | Technical data

A350 +180°C 60 MPa

Material properties

General properties	Unit	iglidur® A350	Testing method
Density	g/cm³	1.42	
Colour		blue	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.6	DIN 53495
Max. water absorption	% weight	1.9	
Coefficient of sliding friction, dynamic, against steel	μ	0.1-0.2	
pv value, max. (dry)	MPa · m/s	0.4	
Mechanical properties			
Flexural modulus	MPa	2,000	DIN 53457
Flexural strength at +20°C	MPa	110	DIN 53452
Compressive strength	MPa	78	
Max. recommended surface pressure (+20 °C)	MPa	60	
Shore-D hardness		76	DIN 53505
Physical and thermal properties			
Max. long-term application temperature	°C	+180	
Max. short-term application temperature	°C	+210	
Min. long-term application temperature	°C	-100	
Heat conductivity	W/m ⋅ K	0.24	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K⁻¹ · 10⁻⁵	8	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 1011	DIN IEC 93
Surface resistance	Ω	> 1011	DIN 53482

Table 01: Material properties table

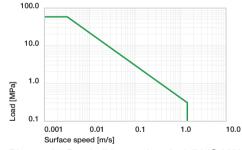


Diagram 01: Permissible pv values for iglidur® A350 bearings with a wall thickness of 1 mm dry running against a steel shaft, at +20°C, mounted in a steel housing

Moisture absorption

The humidity absorption of iglidur® A350 is low and can be ignored when using standard-bearings. Even when saturated with water, iglidur® A350 does not absorb more than 1.9% weight of water.

▶ Diagram, www.igus.eu/a350-moisture

When used in a vacuum, the iglidur® A350 plain bearings release moisture as a vapour. Only dehumidified bearings are suitable in vacuum.

Radiation resistance

Plain bearings made from iglidur® A350 are resistant to radiation up to an intensity of 2 · 102 Gy.

UV resistance

iglidur® A350 plain bearings are resistant to UV radiation.

Medium	Resistance
Alcohol	+
Hydrocarbons	+ to 0
Greases, oils without additives	+
Fuels	+
Diluted acids	+
Strong acids	+
Diluted alkalines	+
Strong alkalines	+

+ resistant 0 conditionally resistant - not resistant All data given at room temperature [+20 °C] Table 02: Chemical resistance

► Chemical table, page 1478



IQUS

iglidur® A350 bearings are made for practically all loads in food and packaging machinery. Even high loads, often seen in lifting equipment, are taken easily and the bearings work flawlessly without any external lubrication.

Mechanical properties

With increasing temperatures, the compressive strength of iglidur® A350 plain bearings decreases. The diagram 02 shows this inverse relationship. The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

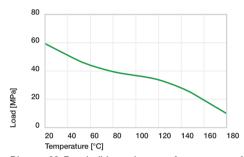


Diagram 02: Permissible maximum surface pressure of as a function of temperature (60 MPa at +20 °C)

Diagram 03 shows the elastic deformation of iglidur® A350 under different loads. At the recommended maximum surface pressure of 60 MPa the deformation at room temperature is less than 5%.

► Surface pressure, page 41

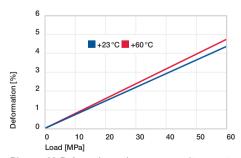


Diagram 03: Deformation under pressure and temperature

Permissible surface speeds

iglidur® A350 bearings are suitable for low and medium speeds in rotating and oscillating use. Even linear movements can often be realised with iglidur® A350. With high sliding speeds, iglidur® J or iglidur® L250 can be interesting alternatives because the wear rate of these materials is better.

► Surface speed, page 44

m/s	Rotating	Oscillating	Linear
Continuous	1	8.0	2.5
Short-term	1.2	0.9	3

Table 03: Maximum surface speeds

Temperatures

Its temperature resistance makes iglidur® A350 an ideal material for bearing in the area of foodstuffs. At temperatures over +140 °C an additional securing is required. The wearrate of iglidur® A350 bearings rises only little with higher temperatures. Tests have shown good wear results at +100°C on all tested shaft materials.

- ► Application temperatures, page 49
- Additional securing, page 49

Friction and wear

The coefficient of friction of iglidur® A350 on a steel shaft are in the mid range (diagrams 04 and 05).

- Coefficients of friction and surfaces, page 47
- ► Wear resistance, page 50

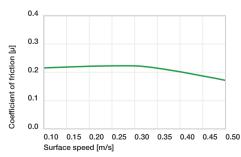


Diagram 04: Coefficient of friction as a function of the surface speed, p = 1 MPa

iglidur® A350 | Technical data

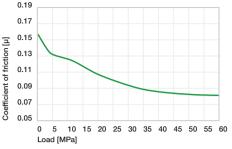


Diagram 05: Coefficient of friction as a function of the pressure, v = 0.01 m/s

25 20 15 Wear [µm/km] 3.0 4 0 5.0 Load [MPa] Cf53 2 SS High grade steel

Diagram 07: Wear, rotating with different shaft materials, as a function of the pressure

Shaft materials

The corrosion-resistant steels are rather considered a natural choice for use in the food industry.

The trials were therefore carried out especially on such materials. It has been shown that there is no clear favourite and 304 stainless steel, high grade steel and hard chrome plated steel are all suitable. Hard-anodised aluminium is also well suited for both linear and rotating movements.

► Shaft materials, page 52

iglidur® A350	Dry	Greases	Oil	Water
C.o.f. µ	0.1-0.2	0.09	0.04	0.04

Table 04: Coefficient of friction against steel (Ra = 1µm, 50 HRC)

Installation tolerances

iglidur® A350 plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the F10 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

► Testing methods, page 57

Shaft h9 [mm]	iglidur [®] A350 F10 [mm]	Housing H7 [mm]
0-0.025	+0.006 +0.046	0 +0.010
0-0.030	+0.010 +0.058	0 +0.012
0-0.036	+0.013 +0.071	0 +0.015
0-0.043	+0.016 +0.086	0 +0.018
0-0.052	+0.020 +0.104	0 +0.021
0-0.062	+0.025 +0.125	0 +0.025
0-0.074	+0.030 +0.150	0 +0.030
	h9 [mm] 0-0.025 0-0.030 0-0.036 0-0.043 0-0.052 0-0.062	h9 [mm] F10 [mm] 0-0.025 +0.006 +0.046 0-0.030 +0.010 +0.058 0-0.036 +0.013 +0.071 0-0.043 +0.016 +0.086 0-0.052 +0.020 +0.104 0-0.062 +0.025 +0.125

Table 05: Important tolerances for plain bearings according to ISO 3547-1 after pressfit

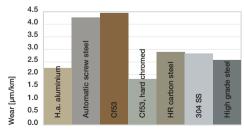
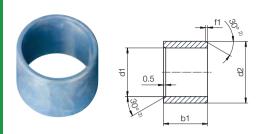


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1 MPa, v = 0.3 m/s

iglidur® A350 | Product range

Sleeve bearing (Form S)



2) Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

Ø 1-6 Ø > 30d1 [mm]: f [mm]: 0.5 1.2

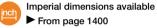
Dimensions [mm]

14	14 T 1 3)	10		D 111
d1	d1-Tolerance ³⁾	d2	b1	Part No.
			h13	
4.0	_	5.5	4.0	A350SM-0405-04
4.0	_	5.5	6.0	A350SM-0405-06
5.0	+0.010	7.0	5.0	A350SM-0507-05
5.0	+0.058	7.0	10.0	A350SM-0507-10
6.0		8.0	6.0	A350SM-0608-06
6.0	_	8.0	8.0	A350SM-0608-08
6.0		8.0	10.0	A350SM-0608-10
8.0	_	10.0	8.0	A350SM-0810-08
8.0		10.0	10.0	A350SM-0810-10
8.0		10.0	12.0	A350SM-0810-12
10.0	+0.013	12.0	8.0	A350SM-1012-08
10.0	+0.071	12.0	10.0	A350SM-1012-10
10.0		12.0	12.0	A350SM-1012-12
10.0		12.0	15.0	A350SM-1012-15
10.0		12.0	20.0	A350SM-1012-20
12.0		14.0	10.0	A350SM-1214-10
12.0	_	14.0	12.0	A350SM-1214-12
12.0		14.0	15.0	A350SM-1214-15
12.0		14.0	20.0	A350SM-1214-20
13.0	_	15.0	10.0	A350SM-1315-10
13.0	0.010	15.0	20.0	A350SM-1315-20
14.0	+0.016	16.0	15.0	A350SM-1416-15
14.0	+0.068	16.0	20.0	A350SM-1416-20
14.0	_	16.0	25.0	A350SM-1416-25
15.0		17.0	15.0	A350SM-1517-15
15.0		17.0	20.0	A350SM-1517-20
15.0	_	17.0	25.0	A350SM-1517-25
16.0	_	18.0	15.0	A350SM-1618-15

Order key

A350 S M-0405-04

Dimensions according to ISO 3547-1 and special dimensions



d1	d1-Tolerance ³⁾	d2	b1 h13	Part No.
16.0		18.0	20.0	A350SM-1618-20
16.0	- 0.010	18.0	25.0	A350SM-1618-25
18.0	+0.016	20.0	15.0	A350SM-1820-15
18.0	+0.068	20.0	20.0	A350SM-1820-20
18.0		20.0	25.0	A350SM-1820-25
20.0		23.0	10.0	A350SM-2023-10
20.0		23.0	15.0	A350SM-2023-15
20.0		23.0	20.0	A350SM-2023-20
20.0		23.0	25.0	A350SM-2023-25
20.0		23.0	30.0	A350SM-2023-30
22.0		25.0	15.0	A350SM-2225-15
22.0		25.0	20.0	A350SM-2225-20
22.0		25.0	25.0	A350SM-2225-25
22.0		25.0	30.0	A350SM-2225-30
24.0		27.0	15.0	A350SM-2427-15
24.0	0.020	27.0	20.0	A350SM-2427-20
24.0	+0.020 - +0.104	27.0	25.0	A350SM-2427-25
24.0	+0.104	27.0	30.0	A350SM-2427-30
24.0		28.0	30.0	A350SM-2428-30
25.0		28.0	15.0	A350SM-2528-15
25.0		28.0	20.0	A350SM-2528-20
25.0		28.0	25.0	A350SM-2528-25
25.0	_	28.0	30.0	A350SM-2528-30
28.0		32.0	20.0	A350SM-2832-20
28.0		32.0	25.0	A350SM-2832-25
28.0		32.0	30.0	A350SM-2832-30
30.0	_	34.0	20.0	A350SM-3034-20
30.0		34.0	25.0	A350SM-3034-25

iglidur® A350 | Product range

Sleeve bearing (Form S)

Dimensions [mm]

30.0 +0.104 34.0 40.0 A350SM-3034-40 40.0 44.0 50.0 A350SM-4044-4044-404-40-40-40-40-40-40-40-40-4										
30.0 +0.020 34.0 30.0 A350SM-3034-30 40.0 44.0 40.0 A350SM-4044-304-404-40 30.0 +0.104 34.0 40.0 A350SM-3034-40 40.0 44.0 50.0 A350SM-4044-30-40 32.0 36.0 20.0 A350SM-3236-20 45.0 50.0 20.0 A350SM-4550-30-40-45-00-40-40-40-30-40-40-40-40-40-40-40-40-40-40-40-40-40	d1	d1-Tolerance ³⁾	d2	b1	Part No.	d1	d1-Tolerance ³⁾	d2	b1	Part No.
30.0 +0.104 34.0 40.0 A350SM-3034-40 40.0 44.0 50.0 A350SM-4044-404-404-40 32.0 36.0 20.0 A350SM-3236-20 45.0 50.0 20.0 A350SM-4550-40-40-40-40-40-40-40-40-40-40-40-40-40				h13					h13	
32.0 36.0 20.0 A350SM-3236-20 45.0 50.0 20.0 A350SM-4550-30 32.0 36.0 30.0 A350SM-3236-30 45.0 50.0 30.0 A350SM-4550-30 32.0 36.0 40.0 A350SM-3236-40 45.0 50.0 40.0 A350SM-4550-30 35.0 +0.025 39.0 20.0 A350SM-3539-20 45.0 +0.125 50.0 50.0 A350SM-4550-40 35.0 40.125 39.0 40.0 A350SM-3539-30 50.0 50.0 55.0 20.0 A350SM-5055-30 35.0 39.0 40.0 A350SM-3539-40 50.0 55.0 40.0 A350SM-5055-30 35.0 44.0 20.0 A350SM-4044-20 50.0 55.0 50.0 A350SM-5055-30	30.0	+0.020	34.0	30.0	A350SM-3034-30	40.0		44.0	40.0	A350SM-4044-
32.0 36.0 30.0 A350SM-3236-30 45.0 50.0 30.0 A350SM-4550-30 32.0 36.0 40.0 A350SM-3236-40 45.0 50.0 40.0 A350SM-4550-30 35.0 +0.025 39.0 20.0 A350SM-3539-20 45.0 +0.125 50.0 50.0 A350SM-4550-30 35.0 39.0 40.0 A350SM-3539-30 50.0 50.0 55.0 20.0 A350SM-5055-30 35.0 39.0 40.0 A350SM-3539-40 50.0 55.0 30.0 A350SM-5055-30 35.0 44.0 20.0 A350SM-4044-20 50.0 55.0 50.0 A350SM-5055-30 40.0 44.0 20.0 A350SM-4044-20 50.0 55.0 50.0 A350SM-5055-30	30.0	+0.104	34.0	40.0	A350SM-3034-40	40.0		44.0	50.0	A350SM-4044
32.0 36.0 40.0 A350SM-3236-40 45.0 +0.025 50.0 40.0 A350SM-4550-4550-4550-4550-4550-4550-4550-455	32.0		36.0	20.0	A350SM-3236-20	45.0		50.0	20.0	A350SM-4550-
35.0	32.0		36.0	30.0	A350SM-3236-30	45.0		50.0	30.0	A350SM-4550-
35.0 +0.025 35.0 +0.125 35.0 39.0 20.0 A350SM-3539-20 45.0 40.125 50.0 50.0 50.0 35.0 39.0 40.0 A350SM-3539-40 50.0 35.0 39.0 50.0 A350SM-3539-50 50.0 40.0 44.0 20.0 A350SM-4044-20 50.0 50.0 50.0 50.0 A350SM-5055-50 55.0 50.0 A350SM-5055-50 40.0 44.0 20.0 A350SM-4044-20 50.0	32.0		36.0	40.0	A350SM-3236-40	45.0	.0.005	50.0	40.0	A350SM-4550-
35.0 +0.125 39.0 30.0 A350SM-3539-30 50.0 55.0 20.0 A350SM-5055-35.0 35.0 39.0 40.0 A350SM-3539-40 50.0 55.0 30.0 A350SM-5055-35.0 40.0 44.0 20.0 A350SM-3539-50 50.0 55.0 40.0 A350SM-5055-35.0 40.0 44.0 20.0 A350SM-4044-20 50.0 55.0 50.0 A350SM-5055-35.0	35.0	.0.005	39.0	20.0	A350SM-3539-20	45.0		50.0	50.0	A350SM-4550-
35.0 39.0 40.0 A350SM-3539-40 50.0 55.0 30.0 A350SM-5055-35.0 35.0 39.0 50.0 A350SM-3539-50 50.0 55.0 40.0 A350SM-5055-35.0 40.0 44.0 20.0 A350SM-4044-20 50.0 55.0 50.0 A350SM-5055-35.0	35.0		39.0	30.0	A350SM-3539-30	50.0	+0.125	55.0	20.0	A350SM-5055-
40.0 44.0 20.0 A350SM-4044-20 50.0 55.0 50.0 A350SM-5055	35.0	+0.125	39.0	40.0	A350SM-3539-40	50.0		55.0	30.0	A350SM-5055-
	35.0		39.0	50.0	A350SM-3539-50	50.0		55.0	40.0	A350SM-5055-
40.0 44.0 30.0 A350SM-4044-30 50.0 55.0 60.0 A350SM-5055	40.0		44.0	20.0	A350SM-4044-20	50.0		55.0	50.0	A350SM-5055-
	40.0		44.0	30.0	A350SM-4044-30	50.0		55.0	60.0	A350SM-5055

³⁾ After press-fit. Testing methods ▶ Page 57

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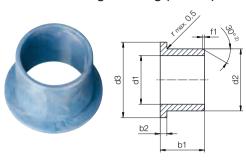
▶ www.igus.eu/iglidur-specialbearings



³ After press-fit. Testing methods ▶ Page 57

iglidur® A350 | Product range

Flange bearing (Form F)



²⁾ Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

Ø 1-6 $\emptyset > 30$ d1 [mm]: f [mm]:

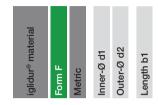
Dimensions [mm]

d1	d1- Tolerance ³	d2	d3 d13	b1 h13	b2 -0.14	Part No.
5.0		7.0	11.0	5.0	1.0	A350FM-0507-05
6.0	+0.010	8.0	12.0	4.0	1.0	A350FM-0608-04
6.0	+0.058	8.0	12.0	6.0	1.0	A350FM-0608-06
6.0		8.0	12.0	8.0	1.0	A350FM-0608-08
8.0		10.0	15.0	5.5	1.0	A350FM-0810-05
8.0		10.0	15.0	7.5	1.0	A350FM-0810-07
8.0		10.0	15.0	9.5	1.0	A350FM-0810-09
8.0	+0.013	10.0	15.0	10.0	1.0	A350FM-0810-10
10.0	+0.013	12.0	18.0	7.0	1.0	A350FM-1012-07
10.0	+0.071	12.0	18.0	9.0	1.0	A350FM-1012-09
10.0		12.0	18.0	10.0	1.0	A350FM-1012-10
10.0		12.0	18.0	12.0	1.0	A350FM-1012-12
10.0		12.0	18.0	17.0	1.0	A350FM-1012-17
12.0		14.0	20.0	7.0	1.0	A350FM-1214-07
12.0		14.0	20.0	9.0	1.0	A350FM-1214-09
12.0	10.016	14.0	20.0	12.0	1.0	A350FM-1214-12
12.0	+0.016	14.0	20.0	17.0	1.0	A350FM-1214-17
14.0	+0.068	16.0	22.0	12.0	1.0	A350FM-1416-12
14.0		16.0	22.0	17.0	1.0	A350FM-1416-17
15.0		17.0	23.0	9.0	1.0	A350FM-1517-09

³ After press-fit. Testing methods ▶ Page 57



A350 F M-0608-06





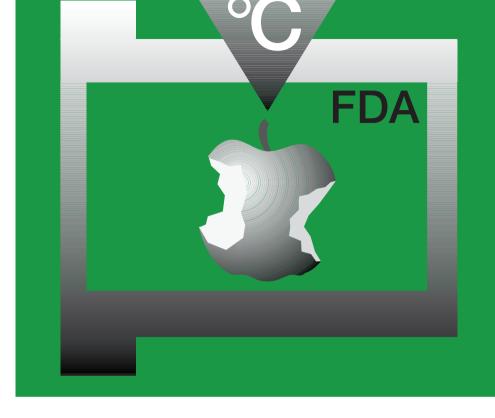
Dimensions according to ISO 3547-1 and special dimensions



Imperial dimensions available

From page 1426

d1	d1-	d2	d3	b1	b2	Part No.
	Tolerance ³⁾		d13	h13	-0.14	
15.0		17.0	23.0	12.0	1.0	A350FM-1517-12
15.0		17.0	23.0	17.0	1.0	A350FM-1517-17
16.0	+0.016	18.0	24.0	12.0	1.0	A350FM-1618-12
16.0	+0.016	18.0	24.0	17.0	1.0	A350FM-1618-17
18.0	+0.000	20.0	26.0	12.0	1.0	A350FM-1820-12
18.0		20.0	26.0	17.0	1.0	A350FM-1820-17
18.0		20.0	26.0	22.0	1.0	A350FM-1820-22
20.0		23.0	30.0	11.5	1.5	A350FM-2023-11
20.0		23.0	30.0	16.5	1.5	A350FM-2023-16
20.0		23.0	30.0	21.5	1.5	A350FM-2023-21
25.0	+0.020	28.0	35.0	11.5	1.5	A350FM-2528-11
25.0	+0.104	28.0	35.0	16.5	1.5	A350FM-2528-16
25.0		28.0	35.0	21.5	1.5	A350FM-2528-21
30.0		34.0	42.0	16.0	2.0	A350FM-3034-16
30.0		34.0	42.0	26.0	2.0	A350FM-3034-26
35.0		39.0	47.0	16.0	2.0	A350FM-3539-16
35.0	+0.025	39.0	47.0	26.0	2.0	A350FM-3539-26
40.0	+0.025	44.0	52.0	30.0	2.0	A350FM-4044-30
40.0	+0.125	44.0	52.0	40.0	2.0	A350FM-4044-40
45.0		50.0	58.0	50.0	2.0	A350FM-4550-50



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