FATH®

DIMENSIONAL TOLERANCES

Tolerances for Different Materials
Deviation limits ensures consistent quality (functionality, appearance...) of all FATH products. In case closer or wider tolerances are intended, these are indicated in the drawing.

1.1 Tolerances of Metal Parts

If not indicated otherwise, metal parts have tolerances according to DIN ISO 2768 – mK– E.

1.1.1 Deviation Limits for Linear Measures, Except Chamfered Edges

Closer or wider deviation limits are indicated in the drawing.
If not, tolerances of the nearest dimension range apply.

Deviation Limits for Linear Measures	Nominal dimension range [mm]	Deviation limits [mm]
	0.5 ⩽ 6	± 0.1
	> 6 ⩽ 30	± 0.2
	> 30 ⩽ 120	± 0.3
	> 120 ⩽ 400	± 0.5

1.1.2 Deviation Limits for Chamfered Edges

(External radii and chamfer heights)
Closer deviation limits are indicated in the drawing.
If not, tolerances of the nearest dimension range apply.

Deviation Limits for Nominal Dimension Range		Nominal dimension range [mm]	Deviation limits [mm]
Tolerance class "medium"	Abbreviation m	0.5 ⩽ 3	± 0.2
		> 3 ⩽ 6	± 0.5
		> 6	± 1

1.1.3 Deviation Limits for Angular Dimensions

(External radii and chamfer heights)
Closer or wider deviation limits are indicated in the drawing.
If not, tolerances of the nearest dimension range apply.

Deviation Limits for Angular Dimensions		Nominal dimension range (shorter arm) [mm]	Deviation limits
Tolerance class "medium"	Abbreviation m	⩽ 10	± 1°
		> 10 ⩽ 50	± 0°30'
		> 50 ⩽ 120	± 0°20'
		> 120 ⩽ 400	± 0°10'

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DIMENSIONAL TOLERANCES (Excerpt from FATH norm 0055)

1.2 Tolerances of Plastic Parts

If not indicated otherwise, plastic parts have tolerances following DIN 16742 – TG2.

1.2.1 Plastic Part Tolerances as Symmetric Deviation Limits for

Dimensional Mesures
Closer or wider deviation limits are indicated in the drawing.
If not, tolerances of the nearest dimension range apply.

Deviation Limits for Linear Measures	Nominal dimension range [mm]	Deviation limits [mm]
	1 ≤ 3	± 0.12
	> 3 ≤ 6	± 0.18
	> 6 ≤ 10	± 0.22
	> 10 ≤ 18	± 0.26
	> 18 ≤ 30	± 0.31
	> 30 ≤ 50	± 0.37
	> 50 ≤ 80	± 0. 57
	> 80 ≤ 120	± 0.80
	>120 ≤ 180	± 0.93
	> 180 ≤ 250	± 1.05

1.2.2 Plastic Part Tolerances for Positioning Tolerances

Closer or wider deviation limits are indicated in the drawing.
If not, tolerances of the nearest dimension range apply.

Plastic Part Tolerances for Positioning Tolerances	Nominal dimension range [mm]	Diameter of the cylindrical tolerance areas [mm]
	1 ≤ 3	ø 0.34
	> 3 ≤ 6	ø 0.51
	> 6 ≤ 10	ø 0.62
	> 10 ≤ 18	ø 0.74
	> 18 ≤ 30	ø 0.88
	> 30 ≤ 50	ø 1.1
	> 50 ≤ 80	ø 1.6
	> 80 ≤ 120	ø 2.3
	>120 ≤ 180	ø 2.6
	> 180 ≤ 250	ø 3.0

All information is just for reference and does not pose a legally binding agreement about the product properties.

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DIMENSIONAL TOLERANCES (Excerpt from FATH norm 0055)

1.3 Tolerances for Materials Not Specified in this Standard
For materials not specified in this standard the general tolerances from section 1.1 apply.
Deviant tolerances are declarated in the drawing.

1.4 General Information about Tolerances at FATH
(...)
1.4.2 Tolerances on dimensions and shapes as well as on surfaces are to regard each separately (Principle of Independence according to EN ISO 8015)
1.4.3 CAD data sets and drawings, except for asymmetric tolerance specifications, comply with the nominal geometry dimensions.
1.4.4 All dimensions with general tolerances are excluded from the test report.
For plastic parts, DIN EN ISO 291 defines a standard climate for measuring: 23 °C ± 2 K und 50 % ± 10 % relative air humidity.
In the title block:
"Tolerances according to ISO 8015 (AD) – DIN EN ISO 291:2008-08" is indicated.
1.4.5 For the measurement of radii, 90° or more of the circle segment has to be accessible for measurement.
1.4.6 Positional tolerances are no general tolerances. If functionality requires so, these are indicated directly in the drawing and have to be measured.

1.5 Rejection
"Unless otherwise stated, workpieces exceeding the general tolerance shall not lead to automatic rejection provided that the ability of the workpiece to function is not impaired. The tolerance the function allows is often greater than the general tolerance. The function of the part is, therefore, not always impaired when the general tolerance is (occasionally) exceeded at any feature of the workpiece. Exceeding the general tolerance should lead to a rejection of the workpiece only if the function is impaired."
(DIN ISO 2768 – issue 04.91)

COLORS (Excerpt from FATH norm 0072)

FATH Color Map	RAL color name	RAL number	Indication on drawing	Usage, notes
	Signal yellow	1003	RAL 1003 Signal yellow according to FATH Standard 0072	FATH Standard
	Daffodil yellow	1007	RAL 1007 Daffodil yellow according to FATH Standard 0072	
	Zinc yellow	1018	RAL 1018 Zinc yellow according to FATH Standard 0072	
	Traffic yellow	1023	RAL 1023 Traffic yellow according to FATH Standard 0072	
	Pastel orange	2003	RAL 2003 Pastel orange according to FATH Standard 0072	
	Pure orange	2004	RAL 2004 Pure orange according to FATH Standard 0072	
	Flame red	3000	RAL 3000 Flame red according to FATH Standard 0072	
	Carmine red	3002	RAL 3002 Carmine red according FATH Standard 0072	
	Ruby red	3003	RAL 3003 Ruby red according to FATH Standard 0072	
	Purple red	3004	RAL 3004 Purple red according to FATH Standard 0072	
	Traffic red	3020	RAL 3020 Traffic red according to FATH Standard 0072	FATH Standard
	Violet blue	5000	RAL 5000 Violet blue according to FATH Standard 0072	
	Signal blue	5005	RAL 5005 Signal blue according to FATH Standard 0072	
	Gray blue	5008	RAL 5008 Gray blue according to FATH Standard 0072	
	Gentian blue	5010	RAL 5010 Gentian blue according to FATH Standard 0072	
	Pigeon blue	5014	RAL 5014 Pigeon blue according to FATH Standard 0072	
	Traffic blue	5017	RAL 5017 Traffic blue according to FATH Standard 0072	
	Water blue	5021	RAL 5021 Water blue according to FATH Standard 0072	
	Night blue	5022	RAL 5022 Night blue according to FATH Standard 0072	
	Turquoise green	6016	RAL 6016 Turquoise green according to FATH Standard 0072	
	Traffic green	6024	RAL 6024 Traffic green according to FATH Standard 0072	
	Signal green	6032	RAL 6032 Signal green according to FATH Standard 0072	FATH Standard
	Squirrel gray	7000	RAL 7000 Squirrel gray according to FATH Standard 0072	
	Silver gray	7001	RAL 7001 Silver gray according to FATH Standard 0072	
	Signal gray	7004	RAL 7004 Signal gray according to FATH Standard 0072	B
	Iron gray	7011	RAL 7011 Iron gray according to FATH Standard 0072	
	Basalt gray	7012	RAL 7012 Basalt gray according to FATH Standard 0072	
	Anthracite gray	7016	RAL 7016 Anthracite gray according to FATH Standard 0072	
	Stone gray	7030	RAL 7030 Stone gray according to FATH Standard 0072	
	Light gray	7035	RAL 7035 Light gray according to FATH Standard 0072	
	Dusty gray	7037	RAL 7037 Dusty gray according to FATH Standard 0072	
	Window gray	7040	RAL 7040 Window gray according to FATH Standard 0072	
	Traffic gray A	7042	RAL 7042 Traffic gray A according to FATH Standard 0072	FATH Standard / I
	Traffic gray B	7043	RAL 7043 Traffic gray B according to FATH Standard 0072	
	Gray brown	8019	RAL 8019 Gray brown according to FATH Standard 0072	
	Cream	9001	RAL 9001 Cream according to FATH Standard 0072	
	Gray white	9002	RAL 9002 Gray white according to FATH Standard 0072	
	Signal white	9003	RAL 9003 Signal white according to FATH Standard 0072	
	Jet black	9005	RAL 9005 Jet black according to FATH Standard 0072	
	White aluminum	9006	RAL 9006 White aluminium According to FATH Standard 0072	
	Gray aluminum	9007	RAL 9007 Gray aluminium according to FATH Standard 0072	
	Pure white	9010	RAL 9010 Pure white according to FATH Standard 0072	
	Traffic white	9016	RAL 9016 Traffic white according to FATH Standard 0072	
	Pearl light gray	9022	RAL 9022 Pearl light gray according to FATH Standard 0072	

All information is just for reference and does not pose a legally binding agreement about the product properties.

SURFACE SPECIFICATIONS AT FATH (Excerpt from FATH norm 0073)

General Specifications for Surfaces
Dimensions on product drawings relate to the finished product.
Coating thicknesses must be taken into consideration for production.

1.1 Powder Coatings

Color	Gloss level	Flatness	Possible powder	Indication on drawing
Black	Matt	Flat	AKZO NOBEL Interpon Autobody MN206D	Powder coated black according to FATH 0073
Metallic	Matt	Flat	OXYPLAST PE82 ANO-LOOK	Powder coated metallic according to FATH 0073

1.2 Galvanic Zinc Coating

Galvanizing declaration according to DIN 50960 *et sq*.

Standard	Basic material	Coating	Chromating	Additional information
DIN 50961	Fe = Steel , iron	Zn = Zinc	X = Arbitrary	mt = Matt
	Zn = Zinc	Cd = Cadmium	A = Colorless	bk = Plain
	Cu = Copper	Ni = Nickel	B = Blue	gl = Glossy
	Al = Aluminum	Cu = Copper	C = ellow	hgl = Highly glossy
		Cr = Chrome	D = Olive green	
		Sn = Tin	E = Green	
		Ag = Silver	F = Black	
		Au = Gold		

DIN 50961 – Galvanic coatings – Zinc coatings on iron or steel
DIN 50962 – Galvanic coatings – chromated coatings of zinc alloys on iron and steel
DIN 50965 – Galvanic coatings – Tin-coatings on iron steel and on copper and copper alloys

1.2.1 Zinc Flake Coating
Coating according to DIN EN ISO 10683 for fasteners.
DIN 50961 – Fe/Zn 5 B gl according to FATH 0073

SURFACE SPECIFICATIONS AT FATH (Excerpt from FATH norm 0073)

General Specifications for Surfaces
Dimensions on product drawings relate to the finished product.
Coating thicknesses must be taken into consideration for production.

1.1 Powder Coatings

Designation 1	Processing
E0	Degrease and deoxidize
E1	Grind
E2	Brush
E3	Polish
E4	Grind and brush
E5	Grind and polish
E6	Pickling
E7	Chemical or electrochemical polish
E8	Polish and chemical or electrochemical polish

1.3 Anodize

DIN 17611 governs the surface quality of anodized parts. Designation is composed as follows:

Designation 2		Color	Class	Layer thickness [µm]	Location and stress
EV 1		*Natural*	10	10	*Interior, dry*
EV 2		*Nickel silver*	15	15	*Interior, temporarily wet / rural climate*
EV 3		*Gold*	20	20	*Exterior, urban and rural climate*
EV 4	*Medium bronze*		25	25	*Aggressive climate, e.g. a combination of industrial and maritime climate*
EV 5	*Dark bronze*				
EV 6	*Black*				
C 0	*Colorless*				
C 31	*Light bronze*				
C 32	*Bright bronze*				
C 33	*Medium bronze*				

1.4 Painting
A completely covered surface is required.
DIN 17611 – E6/EV1 nature class 10 according to FATH 0073

1.5.Phosphating
Light to medium corrosion protection. Low friction, good sliding properties.

1.6 Burnishing
Surface finishing for iron and steel parts, no corrosion protection. Dipping in oil emulsion. Surface coloring brown / black.

1.7 Chromate - Passivate
Surface finish with light corrosion protection for die-cast aluminum and zinc.
Standard: yellow or colorless (chrome VI free)
Very good primer for lacquers and powder coatings.

SURFACE SPECIFICATIONS AT FATH (Excerpt from FATH norm 0073)

1.8 Barrel Finishing
Preparatory treatment for further finishing (coloring, powder coating...). For bulk ware with smaller irregularities.

1.9. Sandblasting – Glass Bead Blasting
Preparatory treatment for further finishing (coloring, powder coating...). For single parts.

1.10 Roughness and Function Specification of Surfaces
1.10.1 Erosion Structure on visible Plastic Surfaces
All visible surfaces of plastic parts have an eroded structure according to VDI 3400.
Ejectors may not be placed on visible surfaces if not indicated otherwise.
This is a Ra value of approximately 6.3.

Comparison table VDI 3400 – DIN EN ISO 1302 (approx. values)	Value VDI	Value DIN EN ISO 1302 [µm]	ISO 1302
	18	0.8	N6
	25	1.6	N7
	30	3.2	N8
	36	6.3	N9
	42	12.5	N10
	45	18	N10

1.10.2 Surface Specifications According to DIN EN ISO 1302
Drawings created at **FATH** usually provide no surface specifications. Manufacturers are intended to be "as free as possible" in manufacturing as far as all dimensions are correct.
In case surface specifications are made on the drawing these are related to DIN ISO 1302.
If not indicated otherwise, surface specifications refer to the Ra-value.
Visible surfaces erode VDI 3400; Ref. No. XX according to FATH 0073

INTERNATIONAL STAINLESS STEEL STANDARDS

Germany		U.S.A.	U.K.	EU	France	Italy	Japan	Russia	Sweden	Spain
W.N. 17007	DIN 17006	AISI	BSI	EURONORM	AFNOR	UNI	JIS	GOST	SIS	UNE
1.4000	X 6 Cr 13	410 S [3]	403S17	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	SUS 410S		23 01	
1.4000	X 6 Cr 13	403 [3]	403S17	X 10 Cr 13	Z 12 C 13	X 12 Cr 13	SUS 403		23 02	
1.4006	X 10 Cr 13			X 12 Cr 13						
1.4024	X 15 Cr 13									
1.4000	X 6 Cr 13	410 [3]	410S21	X 12 Cr 13	Z 10 C 13	X 12 Cr 13	SUS 410	08Kh13	23 02	X 12 Cr 13
1.4006	X 10 Cr 13				Z 12 C 13					
1.4024	X 15 Cr 13									
1.4002	X 6 CrAl 13	405 [3]	405S17	X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13	SUS 405			X 6 CrAl 13
1.4104	X 6 CrMoS17	430 F [3]	441S01	X12CrMoS17	Z13 CF 17	X 10 CrS 17	SUS 430F		23 83	
1.4301	X 5 CrNi 18 10	304 [1]	304S15	X 6 CrNi 18 10	Z 6 CN 18-09	X 5 CrNi 1810	SUS 304	08KH18N10	23 32	X 6 CrNi 19-10
1.4303	X 5 CrNi 18 12		304S16					06KH18N11		
1.4305	X 10 CrNiS 18 9	303 [1]	303S21	X 10 CrNiS 18 9	Z 10 CNF 18-09	X 10 CrNiS 1809	SUS 303		23 46	X 10 CrNiS 18-09
1.4306	X 2 CrNi 18 11	304 L [1]	304S11	X 3 CrNi 18 10	Z 2 CN 18-10	X 2 CrNi 1911	SUS 304L	03KH18N11	23 52	X 2 CrNi 19-10
1.4310	X 12 CrNi 17 7	301 [1]	301S21	X 12 CrNi 17 7	Z 12 CN 17-07	X 12 CrNi 1707	SUS 301		23 31	X 12 CrNi 17-07
1.4311	X 2 CrNiN 18 10				Z 2 CN 18-10-Az	X 2 CrNiN 1811	SUS 304LN		23 71	
1.4319	X 5 CrNi 18 7	302 [1]	302S25	X 10 CrNi 18 9	Z 10 CN 18-09	X 10 CrNi 1809	SUS 302	12KH18N9	23 31	X 10 CrNi 18-09
1.4401	X 5 CrNiMo 17 12 2	316 [1]	316S31	X 6 CrNiMo 17 12 2	Z 6 CND 17-11	X 5 CrNiMo 1712	SUS 316		23 47	X 6 CrNiMo 17-12-03
1.4404	X 2 CrNiMo 17 13 2	316 L [1]	316S11	X 3 CrNiMo 17 12 2	Z 2 CND 17-12	X 2 CrNiMo 1712	SUS 316L		23 48	X 2 CrNiMo 17-12-03
1.4406	X 2 CrNiMoN 17 12 2				Z 2 CND 17-12-Az	X 2 CrNiMoN 1712	SUS 316LN	03KH16N15M3		
1.4427	X 12 CrNiMoS 18 11	316 F [1]								
1.4429	X 2 CrNiMoN 17 13 3				Z 2 CND 17-13-Az	X 2 CrNiMoN 1713		08KH17N13M2T	23 75	
								10KH17N13M2T		
1.4435	X 2 CrNiMo 18 14 3	316 L [1]	316S13	X 3 CrNiMo 17 13 3	Z 2 CND 17-13	X 2 CrNiMo 1713			23 53	X 2 CrNiMo 17-12-03
1.4436	X 5 CrNiMo 17 13 3	316 [1]	316S33	X 6 CrNiMo 17 13 3	Z 6 CND 17-12	X 5 CrNiMo 1713	SUS 316		23 43	X 6 CrNiMo 17-12-03
1.4438	X 2 CrNiMo 18 16 4	317 L [1]	317S12	X 3 CrNiMo 18 16 4	Z 2 CND 19-15	X 2 CrNiMo 1815	SUS 317L		23 67	
1.4438	X 2 CrNiMo 18 16 4	317 L [1]	317S12	X 3 CrNiMo 18 16 4	Z 2 CND 19-15	X 2 CrNiMo 1816	SUS 317L		23 67	
1.4460	X 8 CrNiMo 27 5	329 [1]					SUS 329J1	08KH18N12B	2324	
1.4462	X 2 CrNiMoN 22 5	UNS31803 [2]								
1.4501	X 3 CrNiMoN 25 7	UNS32760 [2]			Z 3 CND 25-06Az		12Kh13			
1.4512	X 6 CrTi 12	409 [3]	409S19	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12	SUH 409			
1.4541	X 6 CrNiTi 18 10	321 [1]	321S31	X 6 CrNiTi 18 10	Z 6 CNT 18-10	X 6 CrNiTi 1811	SUS 321	12KH18N10T	23 37	X 6 CrNiTi 18-11
1.4878	X 12 CrNiTi 18 9									
1.4550	X 6 CrNiNb 18 10	347 1)	347S31	X 6 CrNiNb 18 10	Z 6 CNNb 18-10	X 6 CrNiNb 1811	SUS 347		23 38	X 6 CrNiNb 18-11
1.4571	X 6 CrNiMoTi 17 12 2		320S31	X 6 CrNiMoTi 17 12 2	Z 6 CNDT 17-12	X 6 CrNiMoTi 1712		08KH17N13M2T	23 50	X 6 CrNiMoTi 17-12-03
								10KH17N13M2T		
1.4573	X 10 CrNiMoTi 18 12		320S33	X 6 CrNiMoTI 17 13 3		X 6 CrNiMoTi 1713		08KH16N13M2B		X 6 CrNiMoTi 17-12-03
1.4580	X 6 CrNiMoNb 17 12 2			X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17-12	X 6 CrNiMoNb 1712		09KH16N15M3B		
1.4583	X 10 CrNiMoNb 18 12			X 6 CrNiMoNb 17 13 3		X 6 CrNiMoNb 1713				
1.4713	X 10 CrAl 7			X 10 CrAl 7	Z 8 CA 7			10Kh13SYu		
1.4724	X 10 CrAl 13					X 10 CrAl 12		15Kh18SYu		
1.4742	X 10 CrAl 18			X 10 CrSiAl 18						
1.4821	X 20 CrNiSi 25 4									
1.4828	X 15 CrNiS 20 12	309 1)	309S24	X 15 CrNi 23 13	Z 15 CN 24-13	X 16 CrNi 2314	SUH 309			
1.4841	X 15 CrNiSi 25 20	314 [1]		X 15 CrNiSi 25 20	Z 12 CNS 25-20	X 16 CrNiSi 2520				
1.4842	X 12 CrNi 25 20	310 S [1]		X 6 CrNi 25 20	Z 12 CN 25-20	X 5 CrNi 2520	SUS 310S	20KH25N20S2	23 61	
1.4845	X 12 CrNi 25 21	310 [1]	310S24			X 22 CrNi 2520	SUH 310	10KH23N18		
1.4864	X 12 NiCrSi 36 16	330 [1]			Z 12NCS 35-16		SUH 330	08KH18N10T		
1.4939		904 L [1]			Z 12 CNDV 12-02					

1) austenitic grades
2) austenitic-ferritic grades
3) ferritic grades

CONVERSION FACTORS FOR LINEAR MEASURES

to convert from	to	multiply by
Centimeter [cm]	*Inch* [in]	0,3937
Meter [m]	Yard [yd]	1,093
Kilometer [km]	Mile	0,6215
Zoll *Inch* [in]	Centimeter [cm]	2,54
Yard [yd]	Meter [m]	0,9144
Mile	Kilometer [km]	1,609

1 Meter [m] = 100 cm = 1000 mm

1 foot [ft] = 12 in
1 yard [yd] = 3 ft = 36 in

CONVERSION FACTORS FOR SQUARE MEASURES

to convert from	to	multiply by
Quadratcentimeter [cm²]	Square inch [sqin]	0,155
Quadratmeter [m²]	Square foot [sqft]	10,764
Quadratmeter [m²]	Square Yard [yd²]	1,196
Quadratkilometer [km²]	Acre [ac]	247,1
Quadratkilometer [km²]	Square Miles [sqmi]	0,3861
Square inch [sqin]	Quadratcentimeter [cm²]	6,45
Square foot [sqft]	Quadratmeter [m²]	0,093
Square Yard [yd²]	Quadratmeter [m²]	0,836
Acre [ac]	Quadratkilometer [km²]	0,004
Square Miles [sqmi]	Quadratkilometer [km²]	2,5899

1 Quadratkilometer [km2] = 100 Hektar [ha] =
10.000 Ar [a] = 1.000.000 Quadratmeter [m2]
1 Quadratmeter [m2] = 10.000 Quadratzentimeter [cm2] =
1.000.000 Quadratmillimeter [mm2]

1 Square Mile = 640 Acres [ac.]
1 Acres [ac.] = 4.840 Square Yards [sq yd]
1 Square Yard [sq yd] = 9 Square foot [sq ft]

CONVERSION FACTORS FOR SOLID MEASURES

to convert from	*to*	*multiply by*
Liter [l]	Cubic inch [cu in]	61.025
Liter [l]	Cubic foot [cu ft]	0.0353
Liter [l]	US-Quart	1.0567
Liter [l]	US-Gallon	0.2642
Liter [l]	GB-Gallon	0.2200
Cubikcentimeter [cm3] / Milliliter [ml]	Cubic Inch [cu in]	0.061
Cubic Inch [sq in]	Cubikcentimeter [cm3] / Milliliter [ml]	16.387
Cubic Inch [cu in]	Liter [l]	0.0163
Cubic Foot [cu ft]	Liter [l]	28.317
GB-Gallon	Liter [l]	4.545
US-Gallon	Liter [l]	3.7853
US-Quart	Liter [l]	0.9463
1 Barrel [Ölmaß]	Liter [l]	159

1 Kubikmeter [m3] = 1.000 Kubikdezimeter [dm3] = 1.000.000 Kubikzentimeter [cm3] / Milliliter [ml]
1 Hektoliter [hl] = 100 Liter [l] = 100 Kubikdezimeter [dm3] = 1.000 Deziliter [dl]

CONVERSION FACTORS FOR WEIGHTS

to convert from	to	multiply by
Gramm [g]	Ounce [oz]	0,0353
Kilogramm [kg]	Pound [lb]	2,2046
Ounce [oz]	Gramm [g]	28,3495
Pound [lb]	Kilogramm [kg]	0,45359

1 Kilogramm [kg] = 1000 g

1 Pound [lb] = 16 oz

CONVERSION FACTORS FOR TEMPERATURES

to convert from	to	Formula
Fahrenheit [°F]	Celsius [°C]	°C = (°F-32) x 5/9
Celsius [°C]	Fahrenheit [°F]	°F = 9/5 x °C + 32

0 °F = -17,8 °C
32 °F = 0 °C
50 °F = 10 °C
212 °F = 100 °C

0 °C = 32 °F
10 °C = 50 °F
37 °C = 98,6 °F
100 °C = 212 °F

CONVERSION FACTORS FOR SPEED

to convert from	to	multiply by
Stundenkilometer [km/h]	Miles per hour [mph]	0,6215
Miles per hour [mph]	Stundenkilometer [km/h]	1,609

55 mph = 89 km/h
60 mph = 96 km/h
65 mph = 104 km/h
70 mph = 113 km/h
75 mph = 121 km/h

30 km/h = 19 mph
50 km/h = 31 mph
80 km/h = 50 mph
100 km/h = 62 mph
130 km/h = 81 mph

CONVERSION FACTORS FOR DIMENSIONS

												Inches	
Inches (Fraction)	Decimal Inches	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
												Millimeter	Millimeters
0"	0,0000	0,00	25,40	50,80	76,20	101,60	127,00	152,40	177,80	203,20	228,60	254,00	279,40
1/64"	0,0156	0,40	25,80	51,20	76,60	102,00	127,40	152,80	178,20	203,60	229,00	254,40	279,80
1/32	0,0313	0,79	26,19	51,59	76,99	102,39	127,79	153,19	178,59	203,99	229,39	254,79	280,19
3/64	0,0469	1,19	26,59	51,99	77,39	102,79	128,19	153,59	178,99	204,39	229,79	255,19	280,59
1/16	0,0625	1,59	26,99	52,39	77,79	103,19	128,59	153,99	179,39	204,79	230,19	255,59	280,99
5/64	0,0781	1,98	27,38	52,78	78,18	103,58	128,98	154,38	179,78	205,18	230,58	255,98	281,38
3/32	0,0938	2,38	27,78	53,18	78,58	103,98	129,38	154,78	180,18	205,58	230,98	256,38	281,78
7/64	0,1094	2,78	28,18	53,58	78,98	104,38	129,78	155,18	180,58	205,98	231,38	256,78	282,18
1/8	0,1250	3,18	28,58	53,98	79,38	104,78	130,18	155,58	180,98	206,38	231,78	257,18	282,58
9/64	0,1406	3,57	28,97	54,37	79,77	105,17	130,57	155,97	181,37	206,77	232,17	257,57	282,97
5/32	0,1563	3,97	29,37	54,77	80,17	105,57	130,97	156,37	181,77	207,17	232,57	257,97	283,37
11/64	0,1719	4,37	29,77	55,17	80,57	105,97	131,37	156,77	182,17	207,57	232,97	258,37	283,77
3/16	0,1875	4,76	30,16	55,56	80,96	106,36	131,76	157,16	182,56	207,96	233,36	258,76	284,16
13/64	0,2031	5,16	30,56	55,96	81,36	106,76	132,16	157,56	182,96	208,36	233,76	259,16	284,56
7/32	0,2188	5,56	30,96	56,36	81,76	107,16	132,56	157,96	183,36	208,76	234,16	259,56	284,96
15/64	0,2344	5,95	31,35	56,75	82,15	107,55	132,95	158,35	183,75	209,15	234,55	259,95	285,35
1/4	0,2500	6,35	31,75	57,15	82,55	107,95	133,35	158,75	184,15	209,55	234,95	260,35	285,75
17/64	0,2656	6,75	32,15	57,55	82,95	108,35	133,75	159,15	184,55	209,95	235,35	260,75	286,15
9/32	0,2813	7,14	32,54	57,94	83,34	108,74	134,14	159,54	184,94	210,34	235,74	261,14	286,54
19/64	0,2969	7,54	32,94	58,34	83,74	109,14	134,54	159,94	185,34	210,74	236,14	261,54	286,94
5/16	0,3125	7,94	33,34	58,74	84,14	109,54	134,94	160,34	185,74	211,14	236,54	261,94	287,34
21/64	0,3281	8,33	33,73	59,13	84,53	109,93	135,33	160,73	186,13	211,53	236,93	262,33	287,73
11/32	0,3438	8,73	34,13	59,53	84,93	110,33	135,73	161,13	186,53	211,93	237,33	262,73	288,13
23/64	0,3594	9,13	34,53	59,93	85,33	110,73	136,13	161,53	186,93	212,33	237,73	263,13	288,53
3/8	0,3750	9,53	34,93	60,33	85,73	111,13	136,53	161,93	187,33	212,73	238,13	263,53	288,93
25/64	0,3906	9,92	35,32	60,72	86,12	111,52	136,92	162,32	187,72	213,12	238,52	263,92	289,32
13/32	0,4063	10,32	35,72	61,12	86,52	111,92	137,32	162,72	188,12	213,52	238,92	264,32	289,72
27/64	0,4219	10,72	36,12	61,52	86,92	112,32	137,72	163,12	188,52	213,92	239,32	264,72	290,12
7/16	0,4375	11,11	36,51	61,91	87,31	112,71	138,11	163,51	188,91	214,31	239,71	265,11	290,51
29/64	0,4531	11,51	36,91	62,31	87,71	113,11	138,51	163,91	189,31	214,71	240,11	265,51	290,91
15/32	0,4688	11,91	37,31	62,71	88,11	113,51	138,91	164,31	189,71	215,11	240,51	265,91	291,31
31/64	0,4844	12,30	37,70	63,10	88,50	113,90	139,30	164,70	190,10	215,50	240,90	266,30	291,70
1/2	0,5000	12,70	38,10	63,50	88,90	114,30	139,70	165,10	190,50	215,90	241,30	266,70	292,10
33/64	0,5156	13,10	38,50	63,90	89,30	114,70	140,10	165,50	190,90	216,30	241,70	267,10	292,50
17/32	0,5313	13,49	38,89	64,29	89,69	115,09	140,49	165,89	191,29	216,69	242,09	267,49	292,89
35/64	0,5469	13,89	39,29	64,69	90,09	115,49	140,89	166,29	191,69	217,09	242,49	267,89	293,29
9/16	0,5625	14,29	39,69	65,09	90,49	115,89	141,29	166,69	192,09	217,49	242,89	268,29	293,69
37/64	0,5781	14,68	40,08	65,48	90,88	116,28	141,68	167,08	192,48	217,88	243,28	268,68	294,08
19/32	0,5938	15,08	40,48	65,88	91,28	116,68	142,08	167,48	192,88	218,28	243,68	269,08	294,48
39/64	0,6094	15,48	40,88	66,28	91,68	117,08	142,48	167,88	193,28	218,68	244,08	269,48	294,88
5/8	0,6250	15,88	41,28	66,68	92,08	117,48	142,88	168,28	193,68	219,08	244,48	269,88	295,28
41/64	0,6406	16,27	41,67	67,07	92,47	117,87	143,27	168,67	194,07	219,47	244,87	270,27	295,67
21/32	0,6563	16,67	42,07	67,47	92,87	118,27	143,67	169,07	194,47	219,87	245,27	270,67	296,07
43/64	0,6719	17,07	42,47	67,87	93,27	118,67	144,07	169,47	194,87	220,27	245,67	271,07	296,47
11/16	0,6875	17,46	42,86	68,26	93,66	119,06	144,46	169,86	195,26	220,66	246,06	271,46	296,86
45/64	0,7031	17,86	43,26	68,66	94,06	119,46	144,86	170,26	195,66	221,06	246,46	271,86	297,26
23/32	0,7188	18,26	43,66	69,06	94,46	119,86	145,26	170,66	196,06	221,46	246,86	272,26	297,66
47/64	0,7344	18,65	44,05	69,45	94,85	120,25	145,65	171,05	196,45	221,85	247,25	272,65	298,05
3/4	0,7500	19,05	44,45	69,85	95,25	120,65	146,05	171,45	196,85	222,25	247,65	273,05	298,45
49/64	0,7656	19,45	44,85	70,25	95,65	121,05	146,45	171,85	197,25	222,65	248,05	273,45	298,85
25/32	0,7813	19,84	45,24	70,64	96,04	121,44	146,84	172,24	197,64	223,04	248,44	273,84	299,24
51/64	0,7969	20,24	45,64	71,04	96,44	121,84	147,24	172,64	198,04	223,44	248,84	274,24	299,64
13/16	0,8125	20,64	46,04	71,44	96,84	122,24	147,64	173,04	198,44	223,84	249,24	274,64	300,04
53/64	0,8281	21,03	46,43	71,83	97,23	122,63	148,03	173,43	198,83	224,23	249,63	275,03	300,43
27/32	0,8438	21,43	46,83	72,23	97,63	123,03	148,43	173,83	199,23	224,63	250,03	275,43	300,83
55/64	0,8594	21,83	47,23	72,63	98,03	123,43	148,83	174,23	199,63	225,03	250,43	275,83	301,23
7/8	0,8750	22,23	47,63	73,03	98,43	123,83	149,23	174,63	200,03	225,43	250,83	276,23	301,63
57/64	0,8906	22,62	48,02	73,42	98,82	124,22	149,62	175,02	200,42	225,82	251,22	276,62	302,02
29/32	0,9063	23,02	48,42	73,82	99,22	124,62	150,02	175,42	200,82	226,22	251,62	277,02	302,42
59/64	0,9219	23,42	48,82	74,22	99,62	125,02	150,42	175,82	201,22	226,62	252,02	277,42	302,82
15/16	0,9375	23,81	49,21	74,61	100,01	125,41	150,81	176,21	201,61	227,01	252,41	277,81	303,21
61/64	0,9531	24,21	49,61	75,01	100,41	125,81	151,21	176,61	202,01	227,41	252,81	278,21	303,61
31/32	0,9688	24,61	50,01	75,41	100,81	126,21	151,61	177,01	202,41	227,81	253,21	278,61	304,01
63/64	0,9844	25,00	50,40	75,80	101,20	126,60	152,00	177,40	202,80	228,20	253,60	279,00	304,40

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0810305	47	0810338	47	0810441	42	0810553	31	0810690	219
0810305	217	0810338	217	0810442	42	0810554	31	0810691	219
0810306	47	0810339	47	0810443	42	0810555	31	0810691	219
0810306	217	0810339	217	0810444	42	0810556	31	0810692	219
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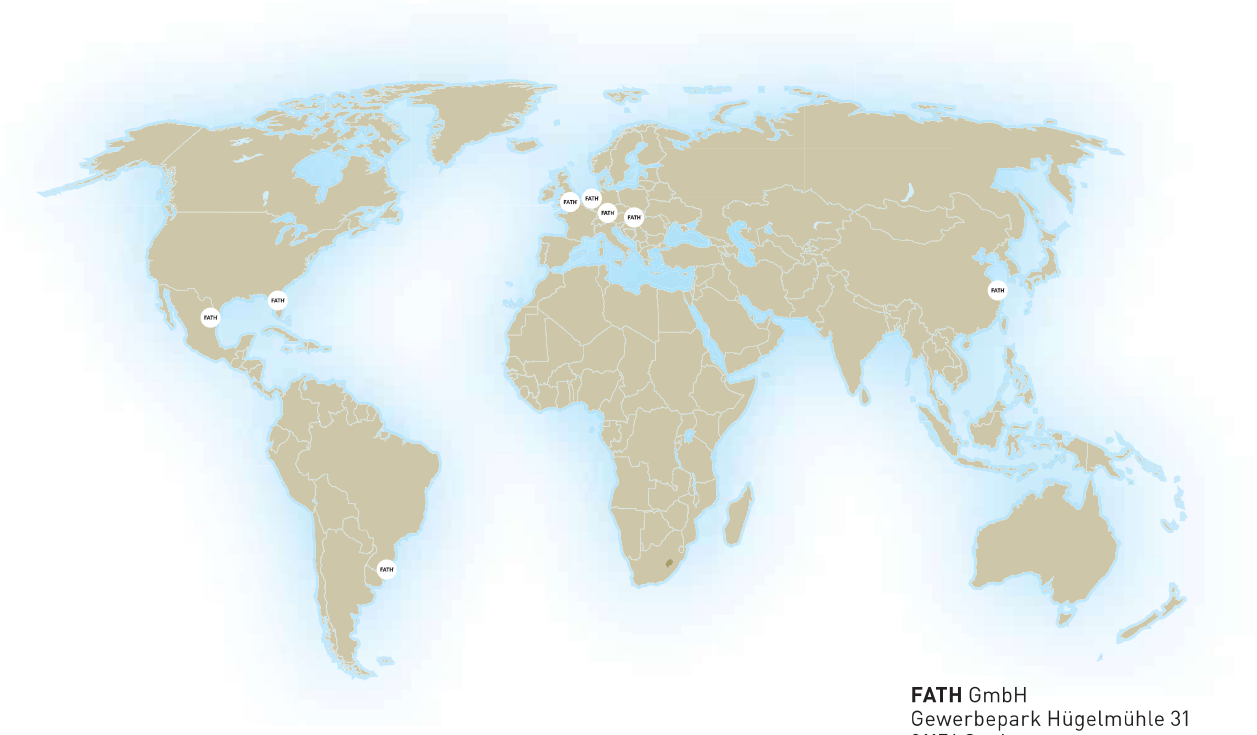

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