1.1730 C 45 U

AFNOR Y3 48

Unalloyed tool steel for the production of fixtures and machine parts, as well as base plates and spacers for tools – the standard material for simple machine components.
Tensile strength approximately 500–700 MPa, hardness max. 207 HB.

Color coding:

White (1.1730)

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PräziPlan™ - precision flat steel (according to DIN 59350)

Specification:
Annealed,
Strength 500–700 MPa,
Hardness max. 207 HB,
Thickness ground with Ra = 6 µm,
Width finely processed, Machined on all sides without decarburization.

Tolerances:

width: +0.40 / -0mm
thickness: +0.25 / -0mm
length: +40.00 / -0mm

length: 1,000 mm — price per piece]

width [mm] \ *thickness[mm]*	*4.0*	*5.0*	*6.0*	*8.0*	*10.0*	*12.0*	*15.0*	*16.0*	*20.0*	*25.0*	*30.0*	*32.0*	*40.0*	*50.0*	*60.0*	*63.0*	*70.0*	*80.0*	*90.0*	*100.0*	*120.0*
20.0	13	14	15	16	17	18	19	20													
25.0	14	15	16	17	18	19	21	23	25												
30.0	15	16	17	18	19	22	23		30	35											
32.0	16	17	18	19	21	23		30	32	37											
40.0	17	18	20	21	22	27	28	32	34	38	45	50									
50.0	18	20	22	23	28	30	35	37	38	42	56	60	65								
60.0	21	24	27	30	32	35	38		43	49	61		69	80							
63.0	24	27	29	32	35	37		47	48	54		67	72	92							
70.0	28	30	33	35	37	38	41	48	52	55	65	72	80	96	108	120					
80.0	30	33	35	37	39	48	53	55	60	62	73	79	88	102	117	128	133				
90.0	33	37	40	42	44	54	57		65	69	80		96	113	129		150	172			
100.0	36	40	42	44	50	59	61	68	73	74	89	93	107	126	144	152	160	184	214		
120.0			48	52	58	67	74		83	88	101		120	141	167		183	214	246	271	
125.0	42	47	52	58	65	73	77	84	86	91	108	117	128	151	176	191	201	231		288	
140.0			58	68	73	82	88		97	103	124	132	138	162	188		215	251	280	303	
150.0	53	57	61	70	76	85	93	98	103	114	128	140	145	169	200	215	228	261	292	326	407
160.0	61	61	65	75	82	91	98	103	107	117	137	147	155	180	217	241	261	290	318	376	
175.0			75	83	85	99		112	114	126		157	163	185		253		299		366	
180.0			79	82	85	97	105		113	129	142	157	167	200	232		277	307	355	396	462
200.0			84	88	95	104	112	116	134	136	162	168	188	226	257	271	297	339	386	417	516
250.0			105	113	116	129	137	142	147	165	191	203	229	276	315	326	262	405	469	511	636
300.0			117	124	135	146	161	167	172	196	226	240	274	321	376	389	417	475	553	600	
315.0			128	138	154	169		186	202	228		260	314	344		423		497		768	
350.0			148	157	173	190	207	215	230	248	271	282	311	386	446	471	499	522	679	825	
400.0	157	167	178	188	198	213	223	246	261	274	308	324	367	442	485	512	542	576	742	879	
450.0									271	305	334	348	399	488	542	598	610	617	785	939	
500.0					214	225	240		292	336	376	393	448	553	631	710	753	785	901	995	

square, length 1,000 mm — price per piece

	10.0	12.0	15.0	16.0	20.0	25.0	30.0	32.0	40.0	50.0	60.0	63.0	70.0	80.0	90.0	100.0	120.0	125.0	150.0
	18	19	20	22	23	33	45	51	55	76	102	111	120	157	188	235	309	408	486

We deliver special versions quickly and affordably!

1.1730

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EcoPlan™ 150/200/300 - precision flat steel (according to DIN 59350) In cost-effective short lengths

Specification:
Annealed, Strength 500–700 MPa,
Hardness max. 207 HB,
Precision-machined on all sides, including
the length, without decarburization.

Tolerances:

width	+0.40 / -0 mm
thickness	
length	+0.25 / -0 mm
	+0.40 / -0 mm

length: 150,0 mm — **price per piece**

150	thickness [mm]								
width [mm]	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0
20.0	6	6	6	7	8				
25.0	6	6	6	7	8	9			
30.0	6	6	6	8	8	10	13		
40.0	7	7	7	8	10	10	14	15	
50.0	7	7	8	9	10	11	15	16	20
60.0	8	8	9	9	11	12	17	17	21
80.0	9	10	12	13	13	15	20	20	24
100.0	11	12	14	13	15	19	23	25	31
120.0	12	14	16	19	21	22	27	30	35
150.0	17	19	20	21	22	23	29	31	42

length: 200.0 mm — **price per piece**

200	thickness [mm]								
width [mm]	15.0	20.0	25.0	30.0	40.0	50.0	60.0	80.0	100.0
100.0	18	20	25	27	33	42	46	61	69
150.0	26	28	31	34	42	58	62	79	92
200.0	33	35	38	44	54	69	76	95	114

length: 300.0 mm — **price per piece]**

300	thickness [mm]								
width [mm]	15.0	20.0	25.0	30.0	40.0	50.0	60.0	80.0	100.0
100.0	25	28	31	33	42	52	58	76	92
150.0	32	33	38	45	55	75	81	100	121
200.0	45	48	55	59	71	87	100	128	154
250.0	52	55	61	68	85	106	121	155	187
300.0	59	61	68	76	97	122	135	178	215

1.1730 C 45 U

EcoPlan™ 4000/600/800 - precision flat steel (according to DIN 59350) In cost-effective short lengths

Specification:
Annealed, Strength 500–700 MPa,
Hardness max. 207 HB,
Precision-machined on all sides, including
the length, without decarburization.

Tolerances:

width:	+0.40 / -0 mm
thickness:	
length:	+0.25 / -0 mm
	+0.40 / -0 mm

length: 400.0 mm — **price per piece**

400	thickness [mm]											
width[mm]	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	80.0	100.0
20.0	9	9	10	12	13							
25,0	9	10	10	13	14	14						
30.0	10	10	11	14	15	15	21					
40.0	11	11	13	15	16	17	24	25				
50.0	12	13	15	17	19	20	27	28	33			
60.0	14	15	16	20	20	22	31	31	37	49		
80.0	16	17	21	24	24	28	38	39	45	60	69	
100.0	20	22	26	28	29	33	44	47	57	70	82	105
120.0	23	25	29	33	38	39	51	53	63	82	96	121
150.0	31	33	38	41	45	51	59	65	76	97	117	147
200.0	39	42	46	50	60	61	80	83	101	123	153	188
250.0	50	52	58	61	66	74	85	102	123	146	183	231
300.0	56	60	65	72	76	80	91	122	145	178	215	271
400.0	86	87	96	85	96	110	124	157	190	217	263	353

length: 600.0 mm — **price per piece**

600	thickness [mm]								
width [mm]	15.0	20.0	25.0	30.0	40.0	50.0	60.0	80.0	100.0
100.0	45	52	56	61	73	82	95	126	155
150.0	56	70	81	91	107	122	132	169	214
200.0	73	90	104	116	138	156	169	216	268
250.0	87	107	124	139	166	187	214	266	333
300.0	95	117	137	153	179	207	246	310	386
350.0	113	129	163	169	223	266	309	399	506

length: 800.0 mm — **price per piece**

800	thickness [mm]											
width [mm]	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	80.0	100.0
80.,0	30	31	38	45	48	50	72	73	82	109	123	
100.0	35	39	46	53	52	59	85	86	100	127	146	187
120.0	40	45	52	61	67	69	99	99	112	147	170	217
150.0	56	60	67	74	81	91	121	119	135	180	208	261
200.0	69	75	81	93	106	108	154	152	180	232	272	335
250.0	90	93	102	114	117	132	187	186	220	277	325	411
300.0	99	106	116	133	137	156	220	222	258	327	381	481
400.0	144	144	159	182	208	222	290	297	360	427	468	703
500.0	163	163	183	212	238	273	357	363	450	526	628	795
600.0	181	181	206	252	278	322	423	464	551	658	818	1052

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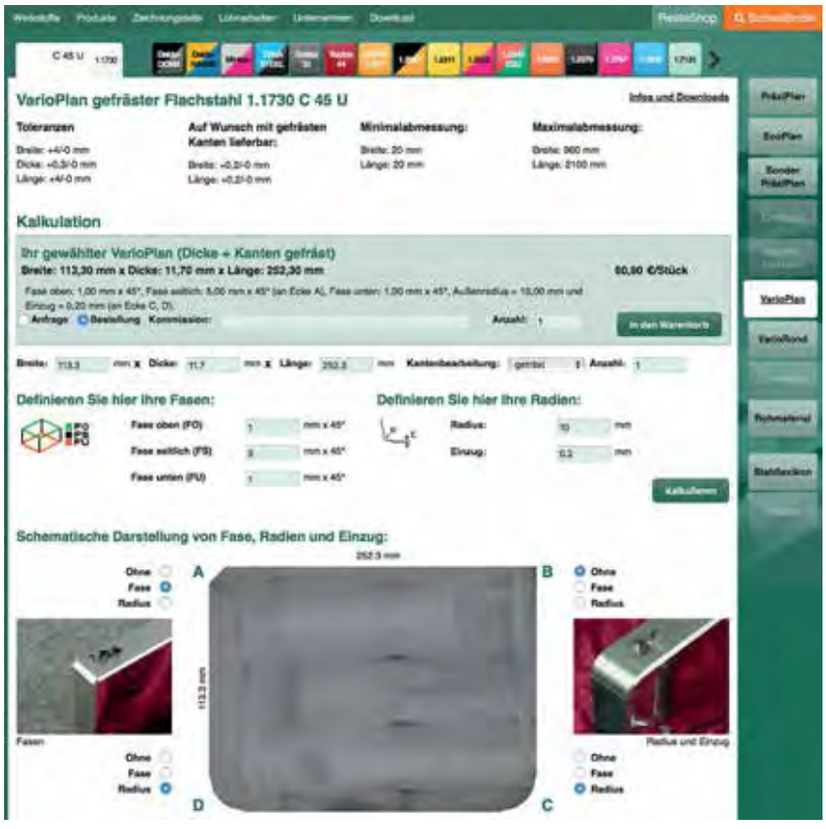
VarioPlan®

Finely milled semi-finished products in freely selectable dimensions.

- Flexible in width, thickness, and length
- Edges sawn or milled
- Available with chamfers and/or corner radii upon request
- Production in 2 to 3 days
- Easy calculation

Use our online calculation tool in the webshop: **www.varioplan.de**



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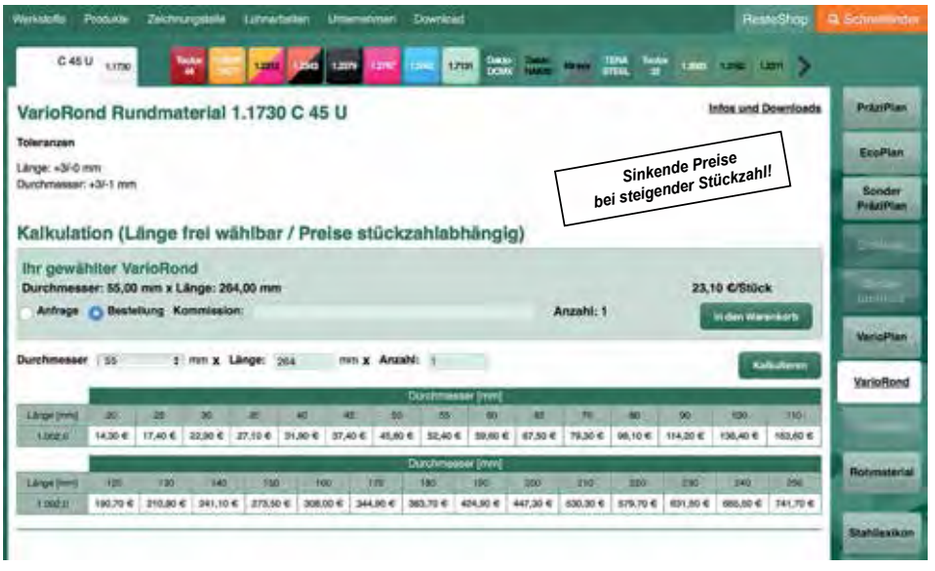
VarioRond®

Round material sections with freely selectable length at a unit price.

Specification and tolerances:
Length, sawn: +3.0 / -0 mm
Diameter: +3.0 / -1 mm Diameter range: 20–250 mm

Flexible online calculation: **www.variorond.de**

- Your desired length is freely selectable.
- Unit prices for your desired length.
- Sawing costs included.
- No additional surcharges.



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Raw material

Plates or cuttings thereof, hot-rolled according to EN 10029 Class B or C.

	thickness [mm]														
1.1730 or 1.0503	9.2	11.2	13.3	15	17.5	18	20	22	25	27	30	35	40	43	45
	50	53,5	55	60	65	66	70	73,5	75	80	84	85	90	95	100
	104	110	120	130	140	150	160	175	185	195	205	215	225	235	

Larger dimensions than forged bars available upon request.

- We cut the cuttings according to your specifications.
- Flat bar steel is available at short notice.
- Available pre-processed as VarioPlan™.
- Round material is available as VarioRond™.

Select affordable raw materials online. Also as cuttings:

www.resteshop.de
Fast, clear, and transparent:
Remnants shop and quick finder at
www.en.stahlnetz.de

Offcut Shop

- **All materials.**
- **With cutting service.**
- **Available immediately from stock.**
- **Competitive special prices for remnants.**
- **While supplies last.**

Quickfinder

- **All products compared.**
- **Your custom parts pre-calculated.**
- **Easy selection of the optimal solution.**

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chemical composition. [%]

	C	Si	Mn	P	S
max.	0.50	0.40	0.80	0.03	0.03
min.	0.42	0.15	0.60		

Unalloyed tool steel for the production of fixtures and machine parts, as well as base plates and tool spacers – the standard material for simple machine components.

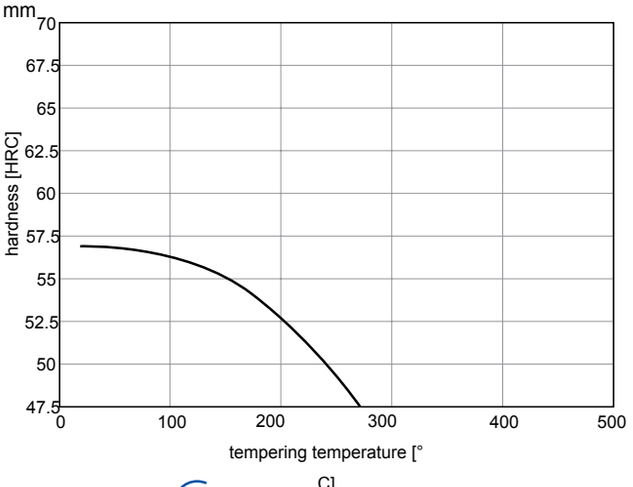
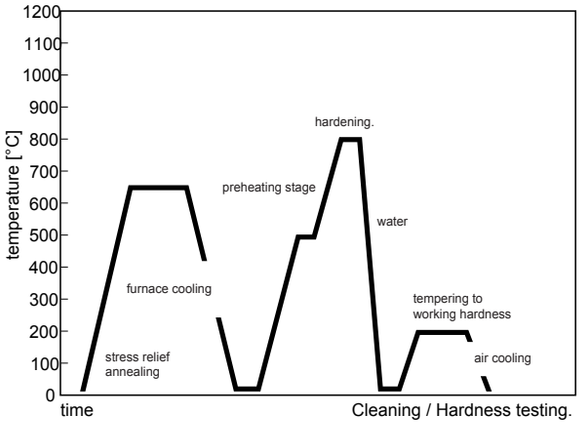
You can obtain this material from us as precision flat steel (standard and custom dimensions), EcoPlan™, VarioPlan™, VarioRond™, and as raw material cuttings.

You can also get 1.1730 from us as a finished machined drawing part according to your specifications.

Color coding: White.

Tempering diagram

Hardening temperature: 810°C, Sample cross-section: Sq. 20 mm



Heat treatment schedule