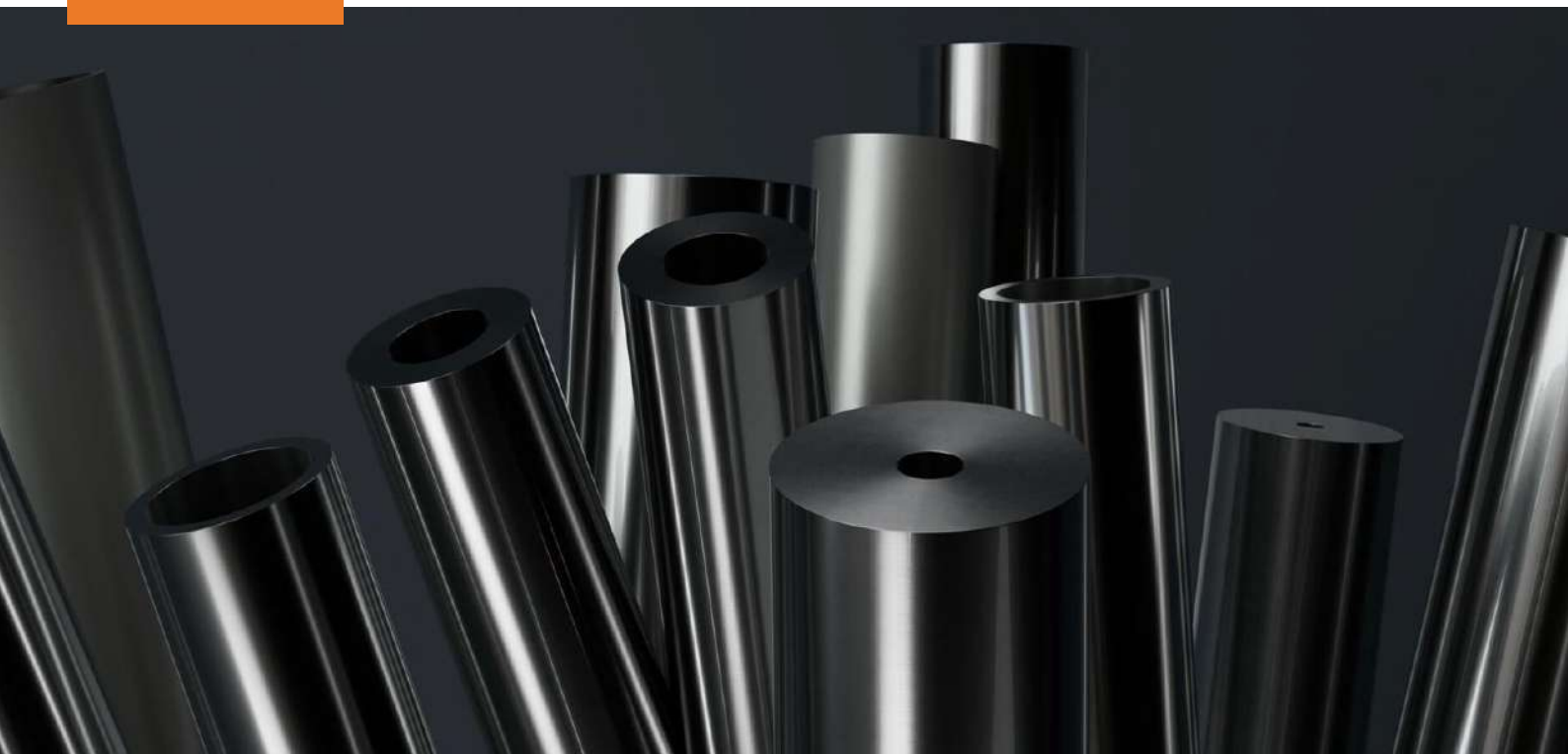




PURINDO TEHNIK
SPECIAL STEEL & NON FERROUS STEEL SUPPLY



About Us.

Purindo Tehnik was established in 1997 in Balikpapan, East Kalimantan - Indonesia.

Our company has more than 20-year experience in supplying high quality materials and giving solution to Oil and Gas Companies, Power Plants, Chemical Industries, Fertilizer Industries, Fabrication, and others.

Since 2003 Purindo Tehnik has been one of the biggest distributors of instrumentation tubes from world class tube manufacturer, "Sandvik/Alleima". Our company is an Authorized Sole Distributor in Indonesia for area Kalimantan, Java and East Indonesia for instrumentation tubes.

Purindo Tehnik is also an authorized distributor for Sandvik Coromant products for Kalimantan & Sulawesi - Indonesia Area since 2005.

Authorized Distributor of

 **Alleima**

SANDVIK
Coromant

Our Product.

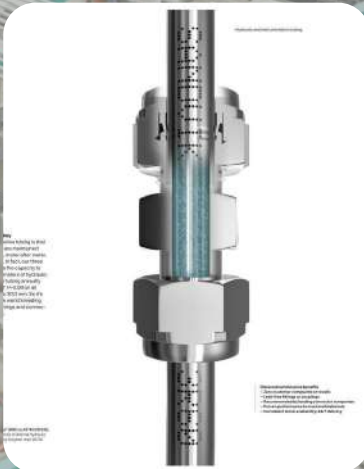


INSTRUMENTATION TUBING

Alleima (formerly Sandvik Materials Technology) is a leading manufacturer of high value-added products in advanced stainless steels and special alloys as well as products for industrial heating.

www.alleima.com

Forged from
the past.
Engineered for
the future.



Steel grades

Grade	Standards		Chemical composition (nominal), %					PRE (nominal)	Mechanical properties		
	ASTM TP UNS	EN steel no.	C	Cr	Ni	Mo	Others		Proof strength $R_{p0.2}$	Tensile strength R_m	Elong. A
									MPa min.	MPa	% min.
Alleima® 3R60	316/316L	1.4435	≤0,030	17,5	13	2,6	-	27	220	515	45
Alleima® 5R75	316Ti	1.4571	0,05	17	12	2,1	Ti	24	220	510	45
Alleima® 2RK65	N08904	1.4539	≤0,020	20	25	4,5	Cu	36	230	520	35
Sanicro® 28	N05028	1.4563	≤0,020	27	31	3,5	Cu	39	220	550	40
Sanicro® 625	N06625	2.4856	≤0,025	21,5	60	8,3	-	48	276	690	30
Alleima® 254 SMO*	S31254	1.4547	≤0,020	20	18	6,1	N,Cu	43	310	655	35
SAF™ 2507	S32750	1.4410	≤0,030	25	7	4	N	43	550	800	25

Tolerance

Metric/Imperial sizes

Alleima® 3R60 OD <6 mm,
tolerances according to ASTM A632

Size OD, mm	Tolerances OD, mm	Wall thickness %
<2,38	+0,05/-0	+/-10
<4,77-2,38	+0,08/-0	+/-10
<6-4,77	+0,10/-0	+/-10

Alleima® 3R60, Alleima® 5R75, Alleima® 254 SMO*,
Alleima® 2RK65, Sanicro® 625, Sanicro® 28, od 6-50 mm EN10305-1

Size OD, mm	Tolerances OD, mm	Wall thickness %
6-30	+/-0,08	+/-10
32-40	+/-0,15	+/-10
42	+/-0,20	+/-10

SAF™ 2507

Size OD, mm	Tolerances OD, mm	Wall thickness %
≤19,05	+/- 0,13	10%

Fixed lengths

6,000 -0/+5 mm

Straightness

Maximum deviation from a straight line = 1,5 mm/6,000 mm.

Ovality

Ovality is calculated as OD_{max} – OD_{min}

Max allowed is 0,005", (0,127 mm) for OD < 30 mm,

For OD > 30 mm, max allowed is same as OD tolerances according to EN 10305-1

Standards

Alleima® 3R60
ASME/ASTM SA/A-213 AW
ASTM A-269
ASTM A-1016
EN 10216-5 TC-1
ISO EN 3651-2 A
EN 10305-1 (Only Tolerances - Table 5)
PED /2014/68/EU

Alleima® 5R75
ASTM A-1016
EN 10216-5 TC-1
ISO EN 3651-2 A
EN 10305-1 (Only Tolerances - Table 5)
PED /2014/68/EU

Alleima® 254 SMO*
ASME/ASTM SA/A-213 AW
ASTM A 269
ASTM A-1016
EN 10216-5 TC-1
EN 10305-1 (Only Tolerances - Table 5)
PED /2014/68/EU
NORSOK M630, MDS R18

Alleima® 2RK65
ASTM A-213/A-269
ASTM A-1016/A-999
EN 10216-5 TC-1
ISO EN 3651-2 C
EN 10305-1 (Only Tolerances - Table 5)
PED /2014/68/EU
NACE MR 0175/ISO 15156

Sanicro® 28
ASTM B668
ASTM B829
EN 10216-5 TC-1
EN 10305-1 (Only Tolerances - Table 5)
PED /2014/68/EU
NACE MR 0175/ISO 15156

SAF™ 2507
ASTM A-789
ASTM A-1016
EN 10216-5 TC-1
PED /2014/68/EU
NORSOK M630, MDS D58
NACE MR 0175/ISO 15156

Sanicro® 625
ASME/ASTM SB/B 444
ASTM B-829
PED /2014/68/EU
Grade 2

* Alleima® 254 SMO is a trademark owned by Outokumpu OY.

Tubes in straight lengths – stock program

Metric sizes

Outside diameter mm	Wall thickness mm	Weight kg/m	Alleima® 3R60 ASTM TP 316/316L EN 1.4435		Alleima® 5R75 ASTM TP 316Ti EN 1.4571		Alleima® 254 SMO* UNS S31254 EN 1.4547			
							Max. working pressure in bar			
			EN	ASME	EN	ASME	EN	ASME		
3	0,5	0,03	• 510	470						
	0,7	0,04	• 718	684						
6	1,0	0,13	• 510	470	• 550	470	• 720	632		
	1,5	0,17	• 774	738	• 835	738	• 1213	993		
8	1,0	0,18	• 366	340	• 395	340	• 574	458		
	1,5	0,24	• 587	537	• 633	537	• 920	723		
	2,0	0,30	• 774	738			• 1213	993		
10	1,0	0,23	• 286	267	• 308	267	• 448	359		
	1,5	0,32	• 451	417	• 486	417	• 636	561		
	2,0	0,40	• 635	577	• 684	577	• 995	776		
12	1,0	0,28	• 234	220	• 252	220	• 330	295		
	1,5	0,39	• 366	340	• 395	340	• 517	458		
	2,0	0,50	• 510	470	• 550	470	• 720	632		
14	1,0	0,33	• 198	186						
	1,5	0,47			• 332	288				
	2,0	0,60	• 426	395	• 460	395				
15	1,0	0,35	• 184	173						
	1,5	0,51	• 286	267	• 308	267				
	2,0	0,65	• 394	366	• 425	366				
16	1,0	0,38	• 172	162						
	1,5	0,54	• 266	249	• 287	249				
	2,0	0,70	• 366	340	• 395	340				
	2,5		• 473	437	• 506	437				
18	1,0	0,43	• 152	143						
	1,5	0,62	• 234	220	• 252	220				
	2,0	0,80	• 321	299	• 346	299	• 453	402		
	2,5	0,97			• 445	383				
20	1,5	0,69	• 209	196	• 223	196				
	2,0	0,90	• 286	267	• 308	267				
	2,5	1,09	• 366	340	• 395	340				
	3,0	1,28			• 486	417				
22	1,5	0,77	• 189	177	• 203	177				
	2,0	1,00	• 257	241	• 278	241				
25	1,5	0,88								
	2,0	1,15	• 224	210	• 242	210	• 316	283		
	2,5	1,41	• 286	267	• 308	267				
	3,0	1,65	• 350	326	• 377	326				
28	1,5	1,00	• 146	138	• 158	132				
	2,0	1,30	• 198	186	• 214	186				
	2,5	1,60	• 252	236						
30	2,5	1,72	• 234	220						
	3,0	2,03	• 286	267	• 308	267				
	4,0	2,60	• 394	366	• 425	366				
35	2,0	1,65	• 156	147	• 167	147				
	2,5	2,03			• 214	186				
	3,0	2,40	• 241	226						
38	2,0	1,80	• 143	135						
	3,0	2,63	• 221	207	• 238	207				
	4,0	3,41	• 302	282	• 326	282				
	5,0	4,13	• 388	360	• 419	360				
42	2,0	2,00	• 129	122	• 138	122				
	3,0	2,93	• 198	186	• 214	186				
50	5,0	5,63	• 286	267						

• Size in stock
Stock standard length is 6,000 mm, for OD up to 50 mm.

* Alleima® 254 SMO is a trademark owned by Outokumpu OY.

For latest information, please refer to: Alleima.com

Imperial sizes

				Alleima® 3R60 ASTM TP 316/316L EN 1.4435	Alleima® 2RK65 UNS N08904 EN 1.4539	SAF™ 2507 UNS S32750 EN 1.4410	Sanicro® 28 UNS N08028 EN 1.4563	Alleima® 254 SMO* UNS S31254 EN 1.4547	Sanicro® 625						
Outside diameter mm	Wall thickness mm	Imperial size	Weight kg/m	Max. working pressure in bar											
				EN		ASME		EN		ASME		EN		ASME	
1,59	0,36	1/16" x 28 BWG	0,011	• 740	662										
	0,51		0,014	• 1008	961										
3,18	0,71	1/8" x 22 BWG	0,044	• 727	652										
	0,89		0,051	• 874	834										
4,76	0,89	3/16" x 20 BWG	0,086	• 585	536										
	0,71		1/4" x 22 BWG	0,100	• 323	301									
6,35	0,89	20 BWG		0,122	• 417	386	• 469	392	• 962	748	• 588	520	• 773		
	0,91	20 SWG	0,124	• 428	396	• 481	402								
	1,22	18 SWG	0,157	• 604	552	• 680	560								
	1,24	18 BWG	0,159	• 616	562	• 693	570	• 1421	1088	• 869	756	• 1124			
	1,63	16 SWG	0,193	• 797	759	• 896	771								
	1,65	16 BWG	0,194	• 807	770	• 908	781	• 1861	1490	• 1265	1035	• 1540			
7,94	0,89	5/16" x 20 BWG	0,157	• 324	302										
	0,91		20 SWG	0,160	• 332	310									
9,53	0,89	3/8" x 20 BWG	0,193	• 265	248	• 298	252	• 611	480		• 415	334	• 497		
	0,91		20 SWG	0,196	• 272	254	• 305	258							
	1,22	18 SWG	0,254	• 376	350	• 423	355		• 416	362					
	1,24	18 BWG	0,257	• 383	356	• 431	361	• 884	689	• 424	368	• 601	479	• 712	
	1,63	16 SWG	0,322	• 526	484	• 591	491		• 582	501					
	1,65	16 BWG	0,326	• 534	490	• 600	498	• 1230	950	• 590	508	• 753	660	• 981	
	2,03	14 SWG	0,381	• 686	619										
2,11	14 BWG	0,391	• 720	646						• 1062	869				
12,7	0,89	1/2" x 20 BWG	0,263	• 194	183	• 219	185	• 448	354	• 219	189	• 305	246	• 365	
	0,91		20 SWG	0,268	• 199	187	• 224	190							
	1,22	18 SWG	0,350	• 273	256	• 313	264								
	1,24	18 BWG	0,356	• 278	260	• 313	264	• 642	504	• 314	269	• 436	350	• 521	
	1,63	16 SWG	0,452	• 377	351	• 430	361		• 423	368					
	1,65	16 BWG	0,456	• 383	355	• 430	361	• 882	688	• 423	368	• 540	477	• 711	
	2,03	14 SWG	0,542	• 486	448	• 546	455								
2,11	14 BWG	0,559	• 508	468	• 571	475		• 574	484	• 717	629	• 936			
15,88	1,22	5/8" x 18 SWG	0,448	• 214	201										
	1,24		18 BWG	0,454	• 218	205									
	1,63		16 SWG	0,582	• 294	275									
	1,65		16 BWG	0,588	• 298	278									
19,05	1,22	3/4" x 18 SWG	0,544	• 176	166										
	1,24		18 BWG	0,553	• 180	169		• 414	328						
	1,63		16 SWG	0,711	• 241	226									
	1,65		16 BWG	0,718	• 244	229									
	2,11		14 BWG	0,895	• 320	298									
	2,41		13 BWG	1,00	• 371	345									
2,77	12 BWG	1,13	• 435	403											
25,4	1,22	1" x 18 SWG	0,739	• 130	123										
	1,24		18 BWG	0,750	• 132	125									
	1,65		16 BWG	0,981	• 179	169									
	2,11		14 BWG	1,23	• 233	219									
	2,41		13 BWG	1,39	• 270	252									
3,20	-		1,78	• 370	343										

• Size in stock

¹⁾ SWG = Standard Wire Gauge, BWG = Birmingham Wire Gauge

28 BWG = 0,014 inch 25 BWG = 0,020 inch 22 BWG = 0,028 inch 20 BWG = 0,035 inch 20 SWG = 0,036 inch 18 BWG = 0,049 inch 18 SWG = 0,048 inch 16 BWG = 0,065 inch 16 SWG = 0,064 inch 14 BWG = 0,083 inch 14 SWG = 0,080 inch 13 BWG = 0,095 inch 12 BWG = 0,109 inch 11 BWG = 0,120 inch

²⁾ 1 bar = 0,1 MPa, 1 ksi = 6,895 MPa

³⁾ EN 13480-3 at 50°C.

⁴⁾ ASME B31.3 at 40°C, Max. allowed stress for Alleima® 3R60™ = ASTM TP 316, Calculated wall thickness tolerance -10%.

* Alleima® 254 SMO is a trademark owned by Outokumpu OY.

For latest information, please refer to: Alleima.com



BARE TUBING & ENCAPSULATED CONTROL LINES

Alleima provides cut-to-length coiled tubes of flatpacks with multiple lines, encapsulated, flushed, & filled and supplied on metal or wooden reels direct to your site.

www.alleima.com



Coiled tubing – standard size range

Imperial sizes

Size, inch		Single coil length *, ft
1/8	x .020	1,300
	x .028	1,300
	x .035	1,300
	x .049	1,300
3/16	x .020	1,000
	x .028	950
	x .035	750
	x .049	600
1/4	x .035	2,005
	x .049	1,528
	x .065	1,256
3/8	x .035	1,267
	x .049	941
	x .065	749
	x .083	612
1/2	x .035	927
	x .049	681
	x .065	534
	x .083	427
5/8	x .035	446
	x .049	325
	x .065	253
	x .083	203
3/4	x .035	367
	x .049	266
	x .065	207

* Minimum guaranteed length for TP 316/316L.

Metric sizes

Size, mm		Single coil length *, m
3.0	x 0.5	400
	x 0.75	400
	x 1.0	400
3.5	x 0.5	400
	x 0.75	400
	x 1.0	350
4.0	x 0.5	350
	x 0.75	350
	x 1.0	300
6.0	x 1.0	594
	x 1.2	515
	x 1.5	440
8.0	x 1.0	424
	x 1.2	364
	x 1.5	304
10.0	x 1.0	330
	x 1.2	281
	x 1.5	233
12.0	x 2.0	192
	x 1.0	270
	x 1.2	229
	x 1.5	188
	x 2.0	146

Sizes above 12 mm – please inquire.

Steel grades

Grade	ASTM	UNS	EN, steel no.
Alleima® 3R12	304/	S30400/	1,4306/
	304L	S30403	1,4301
Alleima® 3R60	316/	S31600/	1,4435
	316L	S31603	
Alleima® 3R65	316/	S31600/	1,4404
	316L	S31603	
Alleima® 6R35	321/	S32100/	1,4541/
	321H	S32109	1,4940
Alleima® 5R75	316Ti	S31635	1,4571
Alleima® 6R40	347/	S34700/	1,4550/
	347H	S34709	1,4912
SAF™ 2205		S31803	1,4462
		S32205	17,162
SAF™ 2304		S32304	1,4362
SAF™ 2507		S32750	1,4410
Alleima® 2Rk65		N08904	1,4539
Sanicro® 2B		N08028	1,4563
Sanicro® 30	Alloy 800	N08800	1,4558
Sanicro® 41	Alloy 825	N08825	
Sanicro® 70	Alloy 600	N06600	
		N04400	
		N02200	

Standards

ASTM: A213, A269, B163, B167, B668, A632, A789, A790
 ASME: SA213, SB163, SB167, SB 668, SA789, SA790
 NACE: MR 0175
 EN: 10216-5 TC1

Eddy Current or hydrostatic test at option of Alleima.



Our Product.



CUTTING TOOLS & TOOLING SOLUTIONS

Sandvik Coromant offers more than superior tooling solutions for turning, milling, drilling and tool holding. We provide extensive process and application knowledge to ensure that you are getting the greatest benefit from your machine and tooling investments.

www.sandvik.coromant.com



Let us introduce our new catalogues

The catalogue consists of three volumes: Turning tools, Rotating tools and Solid round tools. In total, over 30,000 standard products are presented.

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Rotating tools – Milling, Drilling, Boring and Rotating tool adaptors

Solid Round Tools – Milling, Drilling, Tapping and Reaming
















Use the product overviews in the beginning of each chapter to find your area of interest, and a reference will take you to the actual product page. References at the bottom of each product page will guide you to related products and information, such as holders, inserts and cutting data.



Our total offer of approximately 50,000 standard products can be found at www.sandvik.coromant.com. If your requirements are particularly demanding, we have a wide range of products that can be tailored upon your request.

Please visit www.sandvik.coromant.com to be sure of getting the latest measurements and tolerances, get detailed cutting data, and order all available products and spare parts.



Explanation of reference symbols:

	Inserts		External tools		Internal tools		Adaptors		Tool holders
	CoroTurn® SL adaptors		Accessories		Cutting data		Grade description		Geometry description
	Parameter explanation		Tailor Made		Code key		Coolant information		Information

	First choice
	Good choice
	Not available

Our first choice recommendation is a good starting point for most operations, from which you can choose a grade with other attributes if needed.



PURINDO TEHNIK

SPECIAL STEEL & NON FERROUS STEEL SUPPLY

Our Customers.



and more.

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