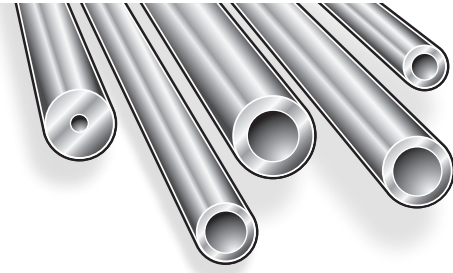


# Durelloy™

## TUBING



Color Code:  
RED



Durelloy Tubing is a fine grained alloy delivered with perfect concentricity and excellent machinability. When oil-quenched, Durelloy Tubing provides a tough core and excellent case hardness. Also available: Durelloy-FM and Durelloy-CD Tubing.

### Applications

- Sleeves
- Slitters
- Spacers
- Ring gauges
- Punches
- Rings
- Bushings
- Bearings
- Collets
- Knives
- Wearing rolls
- Cams
- Ring dies
- Trimmers
- Rollers

### Features And Advantages

- Fully annealed
- Fine grain structure
- Free machining
- Excellent weldability
- Tough core with case hardness

### Typical Analysis

- Carbon .18/.25
- Manganese .50/.70
- Chromium .85/1.10
- Silicon .20/.35
- Molybdenum .25/.32

### Heat Treatment

- **Case hardening** Direct quenching only
- **Carburizing** 1725°–1750°F
- **Oil-quench** Case: Rockwell C 58–62
- **Tempering** 300°– 330°F, case: Rc 58–62
- Above heat treatment produces coarse case
- Core hardness will be approx. Rc 20–35

### Durelloy Tubing Sizes Available For Immediate Shipment

Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.	Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.	Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.	Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.
101	1	3/32	13/16	131	1-1/2	7/32	1-1/16	161	2	5/32	1-11/16	191	2-1/2	9/64	2-7/32
102	1	7/64	25/32	132	1-1/2	1/4	1	162	2	11/64	1-21/32	192	2-1/2	5/32	2-3/16
103	1	1/8	3/4	133	1-5/8	3/32	1-7/16	163	2	3/16	1-5/8	193	2-1/2	3/16	2-1/8
104	1	9/64	23/32	134	1-5/8	7/64	1-13/32	164	2	7/32	1-9/16	194	2-1/2	7/32	2-1/16
105	1	5/32	11/16	135	1-5/8	1/8	1-3/8	165	2	1/4	1-1/2	195	2-1/2	1/4	2
106	1	3/16	5/8	136	1-5/8	5/32	1-5/16	166	2	9/32	1-7/16	196	2-1/2	9/32	1-15/16
107	1-1/8	3/32	15/16	137	1-5/8	3/16	1-1/4	167	2	5/16	1-3/8	197	2-1/2	5/16	1-7/8
108	1-1/8	7/64	29/32	138	1-5/8	7/32	1-3/16	168	2	3/8	1-1/4	198	2-1/2	3/8	1-3/4
109	1-1/8	1/8	7/8	139	1-5/8	1/4	1-1/8	169	2-1/4	3/32	2-1/16	199	2-5/8	3/32	2-7/16
110	1-1/8	5/32	13/16	140	1-3/4	3/32	1-9/16	170	2-1/4	7/64	2-1/32	200	2-5/8	1/8	2-3/8
111	1-1/8	3/16	3/4	141	1-3/4	7/64	1-17/32	171	2-1/4	1/8	2	201	2-5/8	5/32	2-5/16
112	1-1/4	3/32	1-1/16	142	1-3/4	1/8	1-1/2	172	2-1/4	5/32	1-15/16	202	2-5/8	3/16	2-1/4
113	1-1/4	7/64	1-1/32	143	1-3/4	9/64	1-15/32	173	2-1/4	3/16	1-7/8	203	2-5/8	7/32	2-3/16
114	1-1/4	1/8	1	144	1-3/4	5/32	1-7/16	174	2-1/4	7/32	1-13/16	204	2-5/8	1/4	2-1/8
115	1-1/4	9/64	31/32	145	1-3/4	3/16	1-3/8	175	2-1/4	1/4	1-3/4	205	2-5/8	5/16	2
116	1-1/4	5/32	15/16	146	1-3/4	7/32	1-5/16	176	2-1/4	9/32	1-11/16	206	2-3/4	3/32	2-9/16
117	1-1/4	3/16	7/8	147	1-3/4	1/4	1-1/4	177	2-1/4	5/16	1-5/8	207	2-3/4	7/64	2-17/32
118	1-1/4	7/32	13/16	148	1-3/4	9/32	1-3/16	178	2-1/4	3/8	1-1/2	208	2-3/4	1/8	2-1/2
119	1-3/8	3/32	1-3/16	149	1-7/8	3/32	1-11/16	179	2-3/8	3/32	2-3/16	209	2-3/4	5/32	2-7/16
120	1-3/8	1/8	1-1/8	150	1-7/8	7/64	1-21/32	180	2-3/8	7/64	2-5/32	210	2-3/4	3/16	2-3/8
121	1-3/8	5/32	1-1/16	151	1-7/8	1/8	1-5/8	181	2-3/8	1/8	2-1/8	211	2-3/4	7/32	2-5/16
122	1-3/8	3/16	1	152	1-7/8	9/64	1-19/32	182	2-3/8	9/64	2-3/32	212	2-3/4	1/4	2-1/4
123	1-3/8	7/32	15/16	153	1-7/8	5/32	1-9/16	183	2-3/8	5/32	2-1/16	213	2-3/4	9/32	2-3/16
124	1-3/8	1/4	7/8	154	1-7/8	3/16	1-1/2	184	2-3/8	3/16	2	214	2-3/4	5/16	2-1/8
125	1-1/2	3/32	1-5/16	155	1-7/8	7/32	1-7/16	185	2-3/8	7/32	1-15/16	215	2-3/4	3/8	2
126	1-1/2	7/64	1-9/32	156	1-7/8	1/4	1-3/8	186	2-3/8	1/4	1-7/8	216	2-3/4	7/16	1-7/8
127	1-1/2	1/8	1-1/4	157	1-7/8	9/32	1-5/16	187	2-3/8	5/16	1-3/4	217	2-7/8	3/32	2-11/16
128	1-1/2	9/64	1-7/32	158	2	3/32	1-13/16	188	2-1/2	3/32	2-5/16	218	2-7/8	1/8	2-5/8
129	1-1/2	5/32	1-3/16	159	2	7/64	1-25/32	189	2-1/2	7/64	2-9/32	219	2-7/8	9/64	2-19/32
130	1-1/2	3/16	1-1/8	160	2	1/8	1-3/4	190	2-1/2	1/8	2-1/4	220	2-7/8	5/32	2-9/16

(continued)

## Durelloy Tubing Sizes Available For Immediate Shipment (continued)

Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.	Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.	Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.	Tube Ident.	Outer Dia.	Wall Thickness	Inner Dia.
221	2-7/8	3/16	2-1/2	296	4	1/4	3-1/2	371	5-3/4	3/32	5-9/16	446	8	3/32	7-13/16
222	2-7/8	7/32	2-7/16	297	4	9/32	3-7/16	372	5-3/4	1/8	5-1/2	447	8	1/8	7-3/4
223	2-7/8	1/4	2-3/8	298	4	5/16	3-3/8	373	5-3/4	3/16	5-3/8	448	8	3/16	7-5/8
224	2-7/8	9/32	2-5/16	299	4	3/8	3-1/4	374	5-3/4	1/4	5-1/4	449	8	1/4	7-1/2
225	2-7/8	5/16	2-1/4	300	4	7/16	3-1/8	375	5-3/4	5/16	5-1/8	450	8	3/8	7-1/4
226	2-7/8	3/8	2-1/8	301	4	1/2	3	376	5-3/4	3/8	5	451	8	1/2	7
227	3	3/32	2-13/16	302	4	5/8	2-3/4	377	5-3/4	7/16	4-7/8	452	8	9/16	6-7/8
228	3	7/64	2-25/32	303	4-1/4	3/32	4-1/16	378	5-3/4	1/2	4-3/4	453	8	5/8	6-3/4
229	3	1/8	2-3/4	304	4-1/4	7/64	4-1/32	379	6	3/32	5-13/16	454	8	3/4	6-1/2
230	3	5/32	2-11/16	305	4-1/4	1/8	4	380	6	1/8	5-3/4	455	8-1/4	1/8	8
231	3	3/16	2-5/8	306	4-1/4	5/32	3-15/16	381	6	5/32	5-11/16	456	8-1/4	1/4	7-3/4
232	3	7/32	2-9/16	307	4-1/4	3/16	3-7/8	382	6	3/16	5-5/8	457	8-1/4	3/8	7-1/2
233	3	1/4	2-1/2	308	4-1/4	7/32	3-13/16	383	6	1/4	5-1/2	458	8-1/4	1/2	7-1/4
234	3	9/32	2-7/16	309	4-1/4	1/4	3-3/4	384	6	5/16	5-3/8	459	8-1/2	1/8	7-1/4
235	3	5/16	2-3/8	310	4-1/4	5/16	3-5/8	385	6	3/8	5-1/4	460	8-1/2	3/16	8-1/8
236	3	3/8	2-1/4	311	4-1/4	3/8	3-1/2	386	6	7/16	5-1/8	461	8-1/2	1/4	8
237	3	7/16	2-1/8	312	4-1/4	7/16	3-3/8	387	6	1/2	5	462	8-1/2	3/8	7-3/4
238	3	1/2	2	313	4-1/4	1/2	3-1/4	388	6	9/16	4-7/8	463	8-1/2	1/2	7-1/2
239	3-1/4	3/32	3-1/16	314	4-1/4	9/16	3-1/8	389	6	5/8	4-3/4	464	8-1/2	5/8	7-1/4
240	3-1/4	7/64	3-1/32	315	4-1/4	5/8	3	390	6	3/4	4-1/2	465	8-1/2	3/4	7
241	3-1/4	1/2	3	316	4-1/2	3/32	4-5/16	391	6-1/4	3/32	6-1/16	466	9	1/8	8-3/4
242	3-1/4	9/64	2-31/32	317	4-1/2	1/8	4-1/4	392	6-1/4	1/8	6	467	9	3/16	8-5/8
243	3-1/4	5/32	2-15/16	318	4-1/2	5/32	4-3/16	393	6-1/4	3/16	5-7/8	468	9	1/4	8-1/2
244	3-1/4	3/16	2-7/8	319	4-1/2	3/16	4-1/8	394	6-1/4	1/4	5-3/4	469	9	3/8	8-1/4
245	3-1/4	7/32	2-13/16	320	4-1/2	7/32	4-1/16	395	6-1/4	5/16	5-5/8	470	9	7/16	8-1/8
246	3-1/4	1/4	2-3/4	321	4-1/2	1/4	4	396	6-1/4	3/8	5-1/2	471	9	1/2	8
247	3-1/4	9/32	2-11/16	322	4-1/2	5/16	3-7/8	397	6-1/4	1/2	5-1/4	472	9	5/8	7-3/4
248	3-1/4	5/16	2-5/8	323	4-1/2	3/8	3-3/4	398	6-1/4	5/8	5	473	9	3/4	7-1/2
249	3-1/4	3/8	2-1/2	324	4-1/2	7/16	3-5/8	399	6-1/2	3/32	6-5/16	474	9-1/2	1/8	9-1/4
250	3-1/4	7/16	2-3/8	325	4-1/2	1/2	3-1/2	400	6-1/2	1/8	6-1/4	475	9-1/2	3/16	9-1/8
251	3-1/4	1/2	2-1/4	326	4-1/2	5/8	3-1/4	401	6-1/2	1/4	6	476	9-1/2	1/4	9
252	3-1/2	3/32	3-5/16	327	4-1/2	3/4	3	402	6-1/2	5/16	5-7/8	477	9-1/2	3/8	8-3/4
253	3-1/2	7/64	3-9/32	328	4-3/4	3/32	4-9/16	403	6-1/2	3/8	5-3/4	478	9-1/2	1/2	8-1/2
254	3-1/2	1/8	3-1/4	329	4-3/4	1/8	4-1/2	404	6-1/2	1/2	5-1/2	479	9-1/2	9/16	8-3/8
255	3-1/2	9/64	3-7/32	330	4-3/4	5/32	4-7/16	405	6-1/2	5/8	5-1/4	480	9-1/2	3/4	8
256	3-1/2	5/32	3-3/16	331	4-3/4	3/16	4-3/8	406	6-1/2	3/4	5	481	10	1/8	9-1/4
257	3-1/2	3/16	3-1/8	332	4-3/4	1/4	4-1/4	407	6-3/4	3/32	6-9/16	482	10	3/16	9-5/8
258	3-1/2	7/32	3-1/16	333	4-3/4	5/16	4-1/8	408	6-3/4	1/8	6-1/2	483	10	1/4	9-1/2
259	3-1/2	1/4	3	334	4-3/4	3/8	4	409	6-3/4	3/16	6-3/8	484	10	3/8	9-1/4
260	3-1/2	9/32	2-15/16	335	4-3/4	7/16	3-7/8	410	6-3/4	1/4	6-1/4	485	10	1/2	9
261	3-1/2	5/16	2-7/8	336	4-3/4	1/2	3-3/4	411	6-3/4	5/16	6-1/8	486	10	5/8	8-7/8
262	3-1/2	3/8	2-3/4	337	5	3/32	4-13/16	412	6-3/4	3/8	6	487	10	3/4	8-1/2
263	3-1/2	7/16	2-5/8	338	5	1/8	4-3/4	413	6-3/4	7/16	5-7/8	488	10-1/2	1/8	10-1/4
264	3-1/2	1/2	2-1/2	339	5	5/32	4-11/16	414	6-3/4	1/2	5-3/4	489	10-1/2	3/16	10-1/8
265	3-5/8	3/32	3-7/16	340	5	3/16	4-5/8	415	6-3/4	3/4	5-1/4	490	10-1/2	1/4	10
266	3-5/8	1/8	3-1/2	341	5	7/32	4-9/16	416	7	3/32	6-13/16	491	10-1/2	3/8	9-3/4
267	3-5/8	5/32	3-5/16	342	5	1/4	4-1/2	417	7	1/8	6-3/4	492	10-1/2	1/2	9-1/2
268	3-5/8	3/16	3-1/4	343	5	5/16	4-3/8	418	7	3/16	6-5/8	493	10-1/2	3/4	9
269	3-5/8	7/32	3-3/16	344	5	3/8	4-1/4	419	7	1/4	6-1/2	494	11	3/16	10-5/8
270	3-5/8	1/4	3-1/8	345	5	7/16	4-1/8	420	7	5/16	6-3/8	495	11	1/4	10-1/2
271	3-5/8	3/8	2-7/8	346	5	1/2	4	421	7	3/8	6-1/4	496	11	3/8	10-1/4
272	3-5/8	7/16	2-3/4	347	5	5/8	3-3/4	422	7	1/2	6	497	11	1/2	10
273	3-3/4	3/32	3-9/16	348	5	3/4	3-1/2	423	7	5/8	5-3/4	498	11-3/4	3/16	11-3/8
274	3-3/4	1/8	3-1/2	349	5-1/4	3/32	5-1/16	424	7	3/4	5-1/2	499	11-3/4	1/4	11-1/4
275	3-3/4	5/32	3-7/16	350	5-1/4	1/8	5	425	7-1/4	1/8	7	500	11-3/4	3/8	11
276	3-3/4	3/16	3-3/8	351	5-1/4	5/32	4-15/16	426	7-1/4	3/16	6-7/8	501	11-3/4	1/2	10-3/4
277	3-3/4	7/32	3-5/16	352	5-1/4	3/16	4-7/8	427	7-1/4	1/4	6-3/4	502	11-3/4	9/16	10-5/8
278	3-3/4	1/4	3-1/4	353	5-1/4	1/4	4-3/4	428	7-1/4	5/16	6-5/8	503	11-3/4	5/8	10-1/2
279	3-3/4	5/16	3-1/8	354	5-1/4	5/16	4-5/8	429	7-1/4	3/8	6-1/2	504	11-3/4	11/16	10-3/8
280	3-3/4	3/8	3	355	5-1/4	3/8	4-1/2	430	7-1/4	1/2	6-1/4	505	11-3/4	3/4	10-1/4
281	3-3/4	7/16	2-7/8	356	5-1/4	7/16	4-3/8	431	7-1/2	3/32	7-5/16	506	11-3/4	1	9-3/4
282	3-3/4	1/2	2-3/4	357	5-1/4	1/2	4-1/4	432	7-1/2	1/8	7-1/4	507	12	1/8	11-3/4
283	3-7/8	3/32	3-11/16	358	5-1/4	5/8	4	433	7-1/2	3/16	7-1/8	508	12	3/16	11-5/8
284	3-7/8	1/8	3-5/8	359	5-1/2	3/32	5-5/16	434	7-1/2	1/4	7	509	12	1/4	11-1/2
285	3-7/8	5/32	3-9/16	360	5-1/2	1/8	5-1/4	435	7-1/2	5/16	6-7/8	510	12	3/8	11-1/4
286	3-7/8	3/16	3-1/2	361	5-1/2	5/32	5-3/16	436	7-1/2	3/8	6-3/4	511	12	1/2	11
287	3-7/8	1/4	3-3/8	362	5-1/2	3/16	5-1/8	437	7-1/2	1/2	6-1/2	512	12	5/8	10-3/4
288	3-7/8	5/16	3-1/4	363	5-1/2	1/4	5	438	7-1/2	3/4	6	513	12	3/4	10-1/2
289	3-7/8	3/8	3-1/8	364	5-1/2	5/16	4-7/8	439	7-3/4	1/8	7-1/2	514	12-3/4	1/8	12-1/2
290	4	3/32	3-13/16	365	5-1/2	3/8	4-3/4	440	7-3/4	3/16	7-3/8	515	12-3/4	3/16	12-3/8
291	4	7/64	3-25/32	366	5-1/2	7/16	4-5/8	441	7-3/4	1/4	7-1/4	516	12-3/4	1/4	12-1/4
292	4	1/8	3-3/4	367	5-1/2	1/2	4-1/2	442	7-3/4	5/16	7-1/8	517	12-3/4	1/2	11-3/4
293	4	9/64	3-23/32	368	5-1/2	9/16	4-3/8	443	7-3/4	3/8	7	518	12-3/4	9/16	11-5/8
294	4	5/32	3-11/16	369	5-1/2	5/8	4-1/4	444	7-3/4	1/2	6-3/4	519	12-3/4	3/4	11-1/4
295	4	3/16	3-5/8	370	5-1/2	3/4	4	445	7-3/4	3/4	6-1/4				