



**HM Wire International, Inc.**  
 Ph: 330-244-8501 Fax: 330-244-8561  
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**Resistance Alloys: Foot per Pound Conversions**



<b>Alloy:</b>	<b>875, 430, 434</b>		<b>815</b>		<b>260, 675</b>		<b>120, 650</b>		<b>10, 30, 57, 60, 90, 180, 294</b>	
<i>*each alloy has data sheet link.</i>	Density = 0.258 lbs/in <sup>3</sup>		Density = 0.262 lbs/in <sup>3</sup>		Density = 0.298 lbs/in <sup>3</sup>		Density = 0.304 lbs/in <sup>3</sup>		Density = 0.321 lbs/in <sup>3</sup>	
<b>Diameter</b>	<b>ft/lbs</b>	<b>lbs/1000 ft</b>	<b>ft/lbs</b>	<b>lbs/1000 ft</b>	<b>ft/lbs</b>	<b>lbs/1000 ft</b>	<b>ft/lbs</b>	<b>lbs/1000 ft</b>	<b>ft/lbs</b>	<b>lbs/1000 ft</b>
0.0030	45,694	0.0219	44,996	0.0222	39,560	0.0253	38,780	0.0258	36,841	0.0271
0.0040	25,703	0.0389	25,310	0.0395	22,253	0.0449	21,813	0.0458	20,723	0.0483
0.0050	16,450	0.0608	16,199	0.0617	14,242	0.0702	13,961	0.0716	13,263	0.0754
0.0060	11,423	0.0875	11,249	0.0889	9,890	0.1011	9,695	0.1031	9,210	0.1086
0.0070	8,393	0.1192	8,265	0.1210	7,266	0.1376	7,123	0.1404	6,767	0.1478
0.0080	6,426	0.1556	6,328	0.1580	5,563	0.1798	5,453	0.1834	5,181	0.1930
0.0090	5,077	0.1970	5,000	0.2000	4,396	0.2275	4,309	0.2321	4,093	0.2443
0.0100	4,112	0.2432	4,050	0.2469	3,560	0.2809	3,490	0.2865	3,316	0.3016
0.0110	3,399	0.2942	3,347	0.2988	2,943	0.3398	2,884	0.3467	2,740	0.3649
0.0120	2,856	0.3502	2,812	0.3556	2,473	0.4044	2,424	0.4126	2,303	0.4343
0.0130	2,433	0.4109	2,396	0.4173	2,107	0.4747	2,065	0.4842	1,962	0.5097
0.0140	2,098	0.4766	2,066	0.4840	1,817	0.5505	1,781	0.5616	1,692	0.5911
0.0150	1,828	0.5471	1,800	0.5556	1,582	0.6319	1,551	0.6447	1,474	0.6786
0.0160	1,606	0.6225	1,582	0.6322	1,391	0.7190	1,363	0.7335	1,295	0.7721
0.0170	1,423	0.7027	1,401	0.7136	1,232	0.8117	1,208	0.828	1,147	0.8716
0.0180	1,269	0.7879	1,250	0.8001	1,099	0.9100	1,077	0.9283	1,023	0.9772
0.0190	1,139	0.8778	1,122	0.8914	986	1.0139	967	1.0343	918	1.0888
0.0200	1,028	0.9727	1,012	0.9877	890	1.1235	873	1.1461	829	1.2064
0.0210	933	1.0724	918	1.0890	807	1.2386	791	1.2636	752	1.3301

\*To be used as a guideline only



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0.0220	850	1.1769	837	1.1952	736	1.3594	721	1.3868	685	1.4597
0.0230	777	1.2863	766	1.3063	673	1.4858	660	1.5157	627	1.5955
0.0240	714	1.4006	703	1.4223	618	1.6178	606	1.6504	576	1.7372
0.0250	658	1.5198	648	1.5433	570	1.7554	558	1.7908	531	1.8850
0.0260	608	1.6438	599	1.6693	527	1.8986	516	1.9369	490	2.0388
0.0270	564	1.7727	556	1.8002	488	2.0475	479	2.0887	455	2.1987
0.0280	525	1.9064	517	1.9360	454	2.2020	445	2.2463	423	2.3645
0.0290	489	2.0450	482	2.0767	423	2.3621	415	2.4096	394	2.5365
0.0300	457	2.1885	450	2.2224	396	2.5278	388	2.5787	368	2.7144
0.0310	428	2.3368	421	2.3730	370	2.6991	363	2.7535	345	2.8984
0.0320	402	2.4900	395	2.5286	348	2.8761	341	2.934	324	3.0884

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