



### Surcharge List - January 2023 Data

Effective Jan 1, 2023 through Jan 31, 2023

Published 12/12/2022

(\$/CWT)

Scrap Surcharge:  
\$12.333/ CWT

Energy Surcharge:  
Bar- \$.746 Tube - \$1.017  
\*Not included in Total below

Grade	Scrap	Alloy	Cr	Ni	Mo	V	Mn	Total
1010	12.333	0.430	0.000	0.000	0.000	0.000	0.430	12.763
1015	12.333	0.430	0.000	0.000	0.000	0.000	0.430	12.763
1018	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1020	12.333	0.430	0.000	0.000	0.000	0.000	0.430	12.763
1022	12.333	0.812	0.000	0.000	0.000	0.000	0.812	13.145
1025	12.333	0.430	0.000	0.000	0.000	0.000	0.430	12.763
1026	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1028	12.333	0.889	0.000	0.000	0.000	0.000	0.889	13.222
1029	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1030	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1035	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1038	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1040	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1042	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1043	12.333	0.812	0.000	0.000	0.000	0.000	0.812	13.145
1045	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1050	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1053	12.333	0.812	0.000	0.000	0.000	0.000	0.812	13.145
1055	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1060	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1080	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1090	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1117	12.333	1.099	0.000	0.000	0.000	0.000	1.099	13.432
1137	12.333	1.434	0.000	0.000	0.000	0.000	1.434	13.767
1141	12.333	1.434	0.000	0.000	0.000	0.000	1.434	13.767
1144	12.333	1.434	0.000	0.000	0.000	0.000	1.434	13.767
1340	12.333	1.673	0.000	0.000	0.000	0.000	1.673	14.006
1516	12.333	1.362	0.000	0.000	0.000	0.000	1.362	13.695
1522	12.333	1.195	0.000	0.000	0.000	0.000	1.195	13.528
1552	12.333	1.290	0.000	0.000	0.000	0.000	1.290	13.623
1566	12.333	0.956	0.000	0.000	0.000	0.000	0.956	13.289
3310	12.333	39.665	5.288	33.876	0.000	0.000	0.502	51.998
3311	12.333	39.126	4.868	33.876	0.000	0.000	0.382	51.459
4023	12.333	6.051	0.000	0.000	5.287	0.000	0.765	18.384
4027	12.333	6.051	0.000	0.000	5.287	0.000	0.765	18.384
4118	12.333	4.875	1.679	0.000	2.432	0.000	0.765	17.208
4120	12.333	6.171	1.679	0.000	3.489	0.000	1.004	18.504
4121	12.333	7.969	1.846	0.000	5.287	0.000	0.836	20.302
4130	12.333	7.897	3.189	0.000	4.229	0.000	0.478	20.230
4135	12.333	8.183	3.189	0.000	4.229	0.000	0.765	20.516
4140	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4142	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4145	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4150	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4319	12.333	24.719	1.679	17.180	5.287	0.000	0.573	37.052



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Grade	Scrap	Alloy	Cr	Ni	Mo	V	Mn	Total
4320	12.333	25.155	1.679	17.664	5.287	0.000	0.526	37.488
4340	12.333	26.329	2.686	17.664	5.287	0.000	0.693	38.662
4350	12.333	26.185	2.518	17.664	5.287	0.000	0.717	38.518
4619	12.333	24.483	1.007	17.664	5.287	0.000	0.526	36.816
4715	12.333	21.940	1.846	8.227	11.102	0.000	0.765	34.273
4820	12.333	39.736	0.000	33.876	5.287	0.000	0.573	52.069
5046	12.333	1.759	0.923	0.000	0.000	0.000	0.836	14.092
5060	12.333	2.515	1.679	0.000	0.000	0.000	0.836	14.848
5120	12.333	3.450	2.686	0.000	0.000	0.000	0.765	15.783
5130	12.333	3.954	3.189	0.000	0.000	0.000	0.765	16.287
5135	12.333	3.774	3.105	0.000	0.000	0.000	0.669	16.107
5150	12.333	3.450	2.686	0.000	0.000	0.000	0.765	15.783
5160	12.333	3.522	2.686	0.000	0.000	0.000	0.836	15.855
5165	12.333	3.522	2.686	0.000	0.000	0.000	0.836	15.855
5219	12.333	3.425	2.182	0.000	0.000	0.000	1.242	15.758
6150	12.333	6.283	3.189	0.000	0.000	2.329	0.765	18.616
8019	12.333	4.915	1.930	0.000	2.220	0.000	0.765	17.248
8119	12.333	8.960	2.014	3.146	2.749	0.000	1.051	21.293
8219	12.333	9.291	2.014	3.146	2.961	0.000	1.171	21.624
8319	12.333	10.137	2.014	3.146	3.806	0.000	1.171	22.470
8617	12.333	11.996	1.679	5.323	4.229	0.000	0.765	24.329
8620	12.333	11.996	1.679	5.323	4.229	0.000	0.765	24.329
8625	12.333	11.996	1.679	5.323	4.229	0.000	0.765	24.329
8630	12.333	11.996	1.679	5.323	4.229	0.000	0.765	24.329
8640	12.333	12.068	1.679	5.323	4.229	0.000	0.836	24.401
8740	12.333	13.125	1.679	5.323	5.287	0.000	0.836	25.458
8822	12.333	15.240	1.679	5.323	7.401	0.000	0.836	27.573
9260	12.333	0.836	0.000	0.000	0.000	0.000	0.836	13.169
9310	12.333	38.442	4.029	31.456	2.432	0.000	0.526	50.775
9840	12.333	18.416	2.686	9.679	5.287	0.000	0.765	30.749
52100	12.333	5.286	4.952	0.000	0.000	0.000	0.335	17.619
1010M+Ti	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1020V3	12.333	1.469	0.000	0.000	0.000	0.466	1.004	13.802
1022M	12.333	0.932	0.000	0.000	0.000	0.000	0.932	13.265
1026HS	12.333	1.726	0.000	0.000	0.000	1.009	0.717	14.059
1045H	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
1050M1	12.333	1.027	0.000	0.000	0.000	0.000	1.027	13.360
1050M2	12.333	0.908	0.000	0.000	0.000	0.000	0.908	13.241
1050MV	12.333	1.027	0.000	0.000	0.000	0.311	0.717	13.360
1060M	12.333	0.669	0.000	0.000	0.000	0.000	0.669	13.002
1070M	12.333	0.908	0.000	0.000	0.000	0.000	0.908	13.241
1080M	12.333	0.712	0.000	0.000	0.000	0.000	0.712	13.045
10B36	12.333	1.195	0.000	0.000	0.000	0.000	1.195	13.528
10B41	12.333	0.908	0.000	0.000	0.000	0.000	0.908	13.241
10V40M	12.333	1.989	0.000	0.000	0.000	1.009	0.980	14.322

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Grade	Scrap	Alloy	Cr	Ni	Mo	V	Mn	Total
10V45	12.333	2.425	0.000	0.000	0.000	1.708	0.717	14.758
1141V	12.333	2.754	0.000	0.000	0.000	1.320	1.434	15.087
1516CbV1	12.333	2.431	0.000	0.000	0.000	1.165	1.266	14.764
1517VCbCa2	12.333	1.406	0.000	0.000	0.000	0.388	1.018	13.739
1518CbV	12.333	2.357	0.420	0.000	0.000	0.776	1.161	14.690
1518VCa2	12.333	1.637	0.000	0.000	0.000	0.466	1.171	13.970
1519V	12.333	1.265	0.000	0.000	0.000	0.233	1.032	13.598
1519VCbCa2	12.333	2.105	0.000	0.000	0.000	1.087	1.018	14.438
1520VNb	12.333	2.058	0.000	0.000	0.000	0.854	1.204	14.391
1538M	12.333	1.147	0.000	0.000	0.000	0.000	1.147	13.480
1552M1	12.333	1.434	0.000	0.000	0.000	0.000	1.434	13.767
15B23MoV	12.333	4.156	0.504	0.000	1.586	0.776	1.290	16.489
15B29	12.333	1.219	0.000	0.000	0.000	0.000	1.219	13.552
15B37H	12.333	1.195	0.000	0.000	0.000	0.000	1.195	13.528
15B41H	12.333	1.434	0.000	0.000	0.000	0.000	1.434	13.767
15CrMo5	12.333	10.055	3.861	0.000	5.287	0.000	0.908	22.388
15CrMoV6	12.333	28.439	4.616	0.000	19.032	3.882	0.908	40.772
15V10M	12.333	4.208	0.000	0.000	1.586	1.165	1.457	16.541
15V20	12.333	3.912	0.000	0.000	0.000	2.718	1.195	16.245
17-22-AS	12.333	19.178	4.196	0.000	10.574	3.882	0.526	31.511
17-22-AV	12.333	28.687	4.196	0.000	10.574	13.200	0.717	41.020
17CrNiMo6	12.333	27.555	5.539	15.002	6.344	0.000	0.669	39.888
18CrNiMo7-6	12.333	27.555	5.539	15.002	6.344	0.000	0.669	39.888
2.25Cr1Mo	12.333	29.131	7.554	0.000	21.147	0.000	0.430	41.464
20MnCr5	12.333	5.055	3.861	0.000	0.000	0.000	1.195	17.388
20MoCr4M	12.333	11.851	1.595	0.000	9.516	0.000	0.741	24.184
23MnNiMoCr5-4	12.333	24.183	1.679	9.679	11.631	0.000	1.195	36.516
25MoCr4	12.333	12.570	2.770	0.000	8.988	0.000	0.812	24.903
31CrMoV9	12.333	15.477	8.393	0.000	4.229	2.329	0.526	27.810
34CrNiMo6V	12.333	27.277	5.539	15.970	4.758	0.388	0.621	39.610
36CrNiMo4	12.333	19.067	3.525	10.163	4.758	0.000	0.621	31.400
38MnS6BY	12.333	1.889	0.504	0.000	0.000	0.000	1.386	14.222
38MnS6ICI	12.333	1.865	0.504	0.000	0.000	0.000	1.362	14.198
38MnS6MOD	12.333	1.842	0.504	0.000	0.000	0.000	1.338	14.175
38MnS6VBYMod	12.333	2.319	0.336	0.000	0.000	0.621	1.362	14.652
38MNVMod	12.333	2.843	0.000	0.000	0.000	1.553	1.290	15.176
38MnVS6MOD	12.333	4.683	0.000	0.000	0.000	3.727	0.956	17.016
40CrNiMoA	12.333	22.798	2.686	15.002	4.441	0.000	0.669	35.131
4118H	12.333	4.875	1.679	0.000	2.432	0.000	0.765	17.208
4121M	12.333	9.133	2.434	0.000	5.815	0.000	0.884	21.466
4121M1	12.333	10.862	3.105	0.000	6.873	0.000	0.884	23.195
4121M2	12.333	10.862	3.105	0.000	6.873	0.000	0.884	23.195
4121M2.5	12.333	9.073	3.021	0.000	5.287	0.000	0.765	21.406
4128VMTi	12.333	15.493	6.043	0.000	7.401	1.475	0.573	27.826
4130H	12.333	7.980	3.273	0.000	4.229	0.000	0.478	20.313



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Grade	Scrap	Alloy	Cr	Ni	Mo	V	Mn	Total
4130HW	12.333	10.937	3.525	1.694	4.758	0.435	0.526	23.270
4130M7Ca4	12.333	20.052	4.532	0.000	14.803	0.000	0.717	32.385
4130MNI4V	12.333	13.971	3.861	4.355	4.758	0.280	0.717	26.304
4130MODSS	12.333	19.739	3.357	0.000	15.332	0.668	0.382	32.072
4130MVCbTi	12.333	12.393	3.609	0.000	6.873	1.242	0.669	24.726
4130Ni	12.333	9.917	3.441	1.452	4.547	0.000	0.478	22.250
4130NiNb	12.333	10.977	3.525	1.936	4.758	0.233	0.526	23.310
4130NiV	12.333	11.024	3.525	1.936	4.758	0.280	0.526	23.357
4130NiVCa4	12.333	10.664	3.693	1.936	4.229	0.233	0.573	22.997
4130V	12.333	9.002	3.609	0.000	4.229	0.590	0.573	21.335
4130V2	12.333	11.129	3.609	0.000	4.229	2.718	0.573	23.462
4135H	12.333	8.267	3.273	0.000	4.229	0.000	0.765	20.600
4137MCbCa4	12.333	10.859	3.525	0.000	6.450	0.000	0.884	23.192
4137MVCa4	12.333	11.903	3.525	0.000	6.873	0.621	0.884	24.236
4140Ca1	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4140Ca2	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4140Ca4	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4140H	12.333	8.339	3.273	0.000	4.229	0.000	0.836	20.672
4140HW	12.333	11.273	3.525	1.694	4.758	0.388	0.908	23.606
4140MV	12.333	13.288	3.357	0.000	7.930	1.165	0.836	25.621
4140Nb	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4140Se	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4140V	12.333	8.876	3.189	0.000	4.229	0.621	0.836	21.209
4140VNb	12.333	10.337	3.189	1.694	4.229	0.388	0.836	22.670
4140VNb	12.333	10.337	3.189	1.694	4.229	0.388	0.836	22.670
4142H	12.333	8.339	3.273	0.000	4.229	0.000	0.836	20.672
4143V	12.333	9.370	3.357	0.000	4.758	0.466	0.788	21.703
4145H	12.333	8.339	3.273	0.000	4.229	0.000	0.836	20.672
4145HS	12.333	11.290	3.441	0.000	6.344	0.621	0.884	23.623
4145HSX	12.333	13.615	3.693	0.000	8.459	0.388	1.075	25.948
4145M	12.333	9.612	3.441	0.000	5.287	0.000	0.884	21.945
4145M3CbTiCa4	12.333	11.270	3.441	0.000	6.873	0.000	0.956	23.603
4145M3VCb	12.333	11.415	3.609	0.000	6.344	0.435	1.027	23.748
4145M4	12.333	12.831	3.273	0.000	8.459	0.000	1.099	25.164
4145M4CA4	12.333	12.831	3.273	0.000	8.459	0.000	1.099	25.164
4145MCA2	12.333	9.612	3.441	0.000	5.287	0.000	0.884	21.945
4145MCA4	12.333	10.598	3.441	0.000	6.344	0.000	0.812	22.931
4150Ca1	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4150H	12.333	8.339	3.273	0.000	4.229	0.000	0.836	20.672
4150HTe	12.333	8.339	3.273	0.000	4.229	0.000	0.836	20.672
4150MR	12.333	7.631	2.350	0.000	4.229	0.000	1.051	19.964
4150R	12.333	8.255	3.189	0.000	4.229	0.000	0.836	20.588
4161H	12.333	9.866	2.686	0.000	6.344	0.000	0.836	22.199
41B17M	12.333	6.010	1.763	0.000	3.172	0.000	1.075	18.343
41B27	12.333	7.978	3.189	0.000	4.335	0.000	0.454	20.311

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Grade	Scrap	Alloy	Cr	Ni	Mo	V	Mn	Total
41B28M4NBCA4	12.333	13.786	3.357	0.000	9.516	0.435	0.478	26.119
41B30M1	12.333	6.351	1.763	0.000	3.489	0.000	1.099	18.684
41B45M	12.333	6.055	1.679	0.000	3.278	0.000	1.099	18.388
42CrMo4	12.333	9.000	3.525	0.000	4.758	0.000	0.717	21.333
42CrMo4+Ni+V	12.333	15.043	3.693	3.872	5.287	1.475	0.717	27.376
4320H	12.333	24.671	1.679	17.180	5.287	0.000	0.526	37.004
4320M9	12.333	41.015	1.679	17.664	21.147	0.000	0.526	53.348
4320Mcr	12.333	25.869	2.686	17.180	5.287	0.000	0.717	38.202
4330NiMo5VCa4	12.333	38.509	3.189	22.745	10.574	1.165	0.836	50.842
4330VCb	12.333	33.644	3.105	18.632	10.045	0.978	0.884	45.977
4332CR12	12.333	24.936	4.029	14.518	5.815	0.000	0.573	37.269
4332MVCa2	12.333	41.423	3.693	26.133	8.988	1.941	0.669	53.756
4340Ca2	12.333	26.353	2.686	17.664	5.287	0.000	0.717	38.686
4340Ca4	12.333	26.353	2.686	17.664	5.287	0.000	0.717	38.686
4340CAR	12.333	26.353	2.686	17.664	5.287	0.000	0.717	38.686
4340H	12.333	25.869	2.686	17.180	5.287	0.000	0.717	38.202
4340V	12.333	27.052	2.686	17.664	5.287	0.699	0.717	39.385
4350M1	12.333	22.765	2.686	13.066	6.344	0.000	0.669	35.098
43B17	12.333	25.179	1.679	17.664	5.287	0.000	0.550	37.512
44MnSiVS6	12.333	4.632	0.839	0.000	0.000	2.407	1.386	16.965
4715Ca2	12.333	21.940	1.846	8.227	11.102	0.000	0.765	34.273
4715Ca4	12.333	22.037	1.846	8.324	11.102	0.000	0.765	34.370
4715VCa2	12.333	22.561	1.846	8.227	11.102	0.621	0.765	34.894
4815Ca4	12.333	39.641	0.000	33.876	5.287	0.000	0.478	51.974
4815MCA2	12.333	42.090	0.000	33.876	7.401	0.000	0.812	54.423
4815MCA2	12.333	42.090	0.000	33.876	7.401	0.000	0.812	54.423
4817H	12.333	39.641	0.000	33.876	5.287	0.000	0.478	51.974
4820H	12.333	39.736	0.000	33.876	5.287	0.000	0.573	52.069
5016NiV	12.333	5.486	0.671	2.710	0.000	1.149	0.956	17.819
5046H	12.333	1.776	0.940	0.000	0.000	0.000	0.836	14.109
5046M	12.333	2.817	0.923	0.000	0.000	1.009	0.884	15.150
5059Ni	12.333	4.491	0.839	1.936	0.952	0.000	0.765	16.824
50B25	12.333	2.058	1.007	0.000	0.000	0.000	1.051	14.391
50B32M	12.333	3.828	1.259	0.000	1.375	0.000	1.195	16.161
5120H	12.333	3.450	2.686	0.000	0.000	0.000	0.765	15.783
5120M	12.333	4.576	3.525	0.000	0.000	0.000	1.051	16.909
5130H	12.333	4.038	3.273	0.000	0.000	0.000	0.765	16.371
5132RM	12.333	5.693	3.525	0.000	0.000	1.165	1.004	18.026
5160H	12.333	3.522	2.686	0.000	0.000	0.000	0.836	15.855
5160Te	12.333	3.977	3.021	0.000	0.000	0.000	0.956	16.310
8617H	12.333	11.972	1.679	5.323	4.229	0.000	0.741	24.305
8620Ca1	12.333	11.996	1.679	5.323	4.229	0.000	0.765	24.329
8620H	12.333	11.972	1.679	5.323	4.229	0.000	0.741	24.305
8620M7	12.333	11.972	1.679	5.323	4.229	0.000	0.741	24.305
8620Te	12.333	13.291	1.914	5.807	4.758	0.000	0.812	25.624

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8622H	12.333	11.972	1.679	5.323	4.229	0.000	0.741	24.305
8627H	12.333	11.972	1.679	5.323	4.229	0.000	0.741	24.305
8630H	12.333	11.972	1.679	5.323	4.229	0.000	0.741	24.305
8630MCA2	12.333	18.111	2.686	7.259	7.401	0.000	0.765	30.444
8630MCA4	12.333	18.111	2.686	7.259	7.401	0.000	0.765	30.444
8630MVCA2	12.333	21.652	3.189	8.227	8.988	0.388	0.860	33.985
8630MVCAR	12.333	21.652	3.189	8.227	8.988	0.388	0.860	33.985
8640H	12.333	12.068	1.679	5.323	4.229	0.000	0.836	24.401
86B20H	12.333	12.501	1.679	5.323	4.758	0.000	0.741	24.834
8719M	12.333	13.540	1.679	6.291	4.758	0.000	0.812	25.873
8720Ca4	12.333	13.053	1.679	5.323	5.287	0.000	0.765	25.386
8720M2	12.333	12.454	1.846	5.565	4.229	0.000	0.812	24.787
8740H	12.333	13.125	1.679	5.323	5.287	0.000	0.836	25.458
8822H	12.333	15.240	1.679	5.323	7.401	0.000	0.836	27.573
8829M7CbTiCa4	12.333	29.264	2.686	7.743	17.975	0.000	0.860	41.597
9310H	12.333	38.526	4.113	31.456	2.432	0.000	0.526	50.859
9313MCA4	12.333	39.531	4.868	31.456	2.538	0.000	0.669	51.864
9323M	12.333	48.034	4.196	36.296	6.873	0.000	0.669	60.367
9325M1	12.333	46.265	3.357	33.876	8.459	0.000	0.573	58.598
9Cr1Mo	12.333	51.791	30.214	0.000	21.147	0.000	0.430	64.124
A485-1	12.333	4.552	3.525	0.000	0.000	0.000	1.027	16.885
A485-2	12.333	6.853	5.371	0.000	0.000	0.000	1.481	19.186
A485-3	12.333	10.392	4.364	0.000	5.287	0.000	0.741	22.725
A485-B6	12.333	12.527	6.043	0.000	5.815	0.000	0.669	24.860
A485-B7	12.333	16.228	6.043	0.000	9.516	0.000	0.669	28.561
AF9628	12.333	41.323	8.896	10.163	20.090	1.553	0.621	53.656
C38+N2	12.333	1.865	0.504	0.000	0.000	0.000	1.362	14.198
C38Mod	12.333	3.371	0.504	0.000	0.000	1.553	1.314	15.704
CrMo	12.333	16.247	4.196	0.000	11.525	0.000	0.526	28.580
CrMoV4	12.333	22.369	3.693	0.000	13.957	3.882	0.836	34.702
CrMoV6	12.333	15.369	3.273	0.000	7.401	3.882	0.812	27.702
CTC4162-130	12.333	10.323	3.441	1.936	4.229	0.000	0.717	22.656
CTC4162-140	12.333	10.323	3.441	1.936	4.229	0.000	0.717	22.656
D6A	12.333	32.498	3.525	5.323	21.147	1.786	0.717	44.831
EN27	12.333	37.289	4.280	27.101	5.287	0.000	0.621	49.622
EN30B	12.333	50.702	4.196	39.683	6.344	0.000	0.478	63.035
EN30BMod	12.333	55.171	4.616	39.925	8.988	1.165	0.478	67.504
En355	12.333	29.316	5.204	19.358	4.229	0.000	0.526	41.649
EN40B	12.333	21.986	10.911	0.000	10.574	0.000	0.502	34.319
EX25	12.333	7.969	1.846	0.000	5.287	0.000	0.836	20.302
EX4	12.333	4.269	1.846	0.000	1.586	0.000	0.836	16.602
HF1	12.333	1.673	0.000	0.000	0.000	0.000	1.673	14.006
HS220-18	12.333	28.420	1.007	17.664	8.459	0.000	1.290	40.753
HS220-18S	12.333	28.420	1.007	17.664	8.459	0.000	1.290	40.753
HS220-27	12.333	31.590	2.938	17.664	8.988	1.165	0.836	43.923

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HS220-27Ca2	12.333	31.590	2.938	17.664	8.988	1.165	0.836	43.923
HS220-27CA4	12.333	31.590	2.938	17.664	8.988	1.165	0.836	43.923
HS220-27Ca4	12.333	31.590	2.938	17.664	8.988	1.165	0.836	43.923
HS220-27CAR	12.333	31.590	2.938	17.664	8.988	1.165	0.836	43.923
HY-80	12.333	42.869	5.288	27.827	9.516	0.000	0.239	55.202
IMPACT7	12.333	20.052	4.532	0.000	14.803	0.000	0.717	32.385
MicroTec2W65	12.333	2.485	0.000	0.000	0.000	1.242	1.242	14.818
MicroTec2W70	12.333	2.831	0.000	0.000	0.000	1.398	1.434	15.164
MicroTec2W75	12.333	3.763	0.000	0.000	0.000	2.329	1.434	16.096
MicroTec3M80C	12.333	3.084	0.504	0.000	0.000	1.242	1.338	15.417
MicroTec3M80H	12.333	3.405	0.000	0.000	0.000	2.019	1.386	15.738
MicroTec3M80T	12.333	3.405	0.000	0.000	0.000	2.019	1.386	15.738
MicroTec3M85	12.333	3.202	0.000	0.000	0.000	1.864	1.338	15.535
MicroTec3W75	12.333	3.894	0.000	0.000	0.000	2.795	1.099	16.227
MicroTec4M95	12.333	3.395	0.504	0.000	0.000	1.553	1.338	15.728
MicroTec4M95A	12.333	3.395	0.504	0.000	0.000	1.553	1.338	15.728
MicroTec5H85	12.333	2.294	0.000	0.000	0.000	1.553	0.741	14.627
Nit3	12.333	13.346	5.371	0.000	7.401	0.000	0.573	25.679
PS16	12.333	6.171	1.679	0.000	3.489	0.000	1.004	18.504
PS16M	12.333	6.447	1.930	0.000	3.489	0.000	1.027	18.780
PS55	12.333	35.654	1.846	17.664	15.332	0.000	0.812	47.987
PS55Ca2	12.333	35.654	1.846	17.664	15.332	0.000	0.812	47.987
PS55M	12.333	35.974	1.930	17.664	15.543	0.000	0.836	48.307
PS55M2	12.333	35.654	1.846	17.664	15.332	0.000	0.812	47.987
S30CDY7A	12.333	0.860	0.000	0.000	0.000	0.000	0.860	13.193
S38CX	12.333	4.278	0.000	0.000	3.489	0.000	0.788	16.611
S38MS1V	12.333	3.914	0.504	0.000	0.000	2.096	1.314	16.247
S38MS1VA	12.333	4.384	0.571	0.000	0.000	2.485	1.328	16.717
S38MS1V-L	12.333	3.914	0.504	0.000	0.000	2.096	1.314	16.247
S38MS1V-T	12.333	3.424	0.504	0.000	0.000	1.631	1.290	15.757
S40C-M	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
S40VCSS1	12.333	2.819	0.453	0.000	0.000	1.553	0.812	15.152
S45CVMn	12.333	3.639	0.504	0.000	0.000	1.941	1.195	15.972
S53CG	12.333	0.717	0.000	0.000	0.000	0.000	0.717	13.050
SCM420H	12.333	9.505	3.525	0.000	5.287	0.000	0.693	21.838
SCR15	12.333	4.218	3.525	0.000	0.000	0.000	0.693	16.551
SCR440H	12.333	4.218	3.525	0.000	0.000	0.000	0.693	16.551
SPG21CF	12.333	12.826	1.679	0.000	10.574	0.000	0.573	25.159
SV40CL1	12.333	2.779	0.504	0.000	0.000	1.631	0.645	15.112
SVh40C	12.333	1.649	0.000	0.000	0.000	0.932	0.717	13.982
SW85	12.333	3.202	0.000	0.000	0.000	1.864	1.338	15.535
TIM6V	12.333	3.142	0.000	0.000	0.000	1.708	1.434	15.475
VacTec400	12.333	13.478	2.770	3.146	6.344	0.000	1.219	25.811
WHS100	12.333	14.108	2.602	5.323	4.229	0.854	1.099	26.441
WHS130	12.333	25.821	2.686	17.180	5.287	0.000	0.669	38.154



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<b>WHS130Ca4</b>	12.333	25.821	2.686	17.180	5.287	0.000	0.669	38.154
<b>ZF7B</b>	12.333	5.271	4.029	0.000	0.000	0.000	1.242	17.604