

1	<b>RADIOACTIVE</b>	27	...Nickel or molybdenum containing
2	.Actinide base; singly or in combination	28	...Over .1 percent aluminum containing
3	..Uranium base	29	...Processes
4	.Iron base	30	....Adding rare earth or alkaline earth metal
5	.Magnesium base	31	....Adding sulfur, selenium or tellurium
6	.Nickel or cobalt base	32	....Adding vanadium, titanium, niobium, or zirconium
7	.Aluminum base	33	....Adding silicon
8	<b>FERROUS (I.E., IRON BASE)</b>	34	..Nine percent or more chromium containing
9	.1.7 percent or more carbon containing	35	..Noble metal containing
10	..Six percent or more total group IV, V or VI transition metals containing	36	..Cobalt containing
11	...Eight percent or more chromium containing	37	..Molybdenum or tungsten containing
12	....Molybdenum, tungsten or vanadium containing	38	....Nickel containing
13	..2.7 percent or more carbon equivalent containing (i.e., cast iron)	39	....Copper containing
14	..Boron containing	40	..Rare earth containing
15	...Chromium containing	41	..Lead, bismuth, antimony, calcium, selenium or tellurium containing
16	....Nickel containing	42	..Over 0.05 percent sulfur, over 0.04 percent phosphorus or sulfur or phosphorus added in any amount to promote machinability
17	....Molybdenum containing	43	..Eight percent or more nickel containing
18	...Processes of adding magnesium	44	...Over 2 percent manganese containing
19	....Adding magnesium as a liquid, vapor or as a solid agent entrained by gas (e.g., fluidized)	45	....Copper containing
20	....Flowing molten iron alloy onto solid magnesium containing agent, or adding solid magnesium containing agent to molten stream of iron alloy	46	....Molybdenum or tungsten containing
21	....Mechanically plunging magnesium containing agent below surface of iron alloy melt	47	....Group IV or V transition metal containing
22	....Separate addition of plural agents, at least one containing magnesium	48	....Group IV or V transition metal containing
23	....Magnesium containing agent is coated, impregnated, or compacted (e.g., briquetted, coated particles)	49	...Copper containing
24	....Magnesium present in agent only as a compound with a nonmetal	50	...Over 1.5 percent silicon containing
25	....In agent also containing silicon, rare earth, or alkaline earth metal	51	....Group IV or V transition metal containing
26	...Copper containing	52	..Molybdenum containing
		53	....Group IV or V transition metal containing
		54	...Group IV or V transition metal containing
		55	...Over 0.1 percent carbon containing

56	..Eight percent or more total nickel plus manganese containing	87	.Over 0.05 percent sulfur, over 0.04 percent phosphorus or sulfur or phosphorus added in any amount to promote machinability
57	...Molybdenum or tungsten containing	88	..Processes of making or treating alloy containing over 0.04 percent phosphorus
58	...Copper containing	89	.Copper containing
59	...Over 0.20 percent nitrogen containing	90	..Chromium containing
60	..Copper containing	91	...Nickel containing
61	..Molybdenum or tungsten containing	92	..Nickel containing
62	..Over 0.1 percent aluminum containing	93	..Vanadium, zirconium, titanium or molybdenum containing
63	..Molybdenum or tungsten containing	94	.Over 10 percent nickel containing
64	..Boron containing	95	..Cobalt containing
65	..0.25 percent or more nitrogen containing	96	..Molybdenum containing
66	...Group IV or V transition metal containing	97	..Chromium containing
67	..Molybdenum or tungsten containing	98	..Over 1 percent silicon containing
68	...Titanium, zirconium or hafnium containing	99	.One percent or more carbon containing, but less than 1.7 percent
69	...Vanadium, niobium or tantalum containing	100	..Chromium containing
70	..Group IV or V transition metal containing	101	...Molybdenum containing
71	..Processes	102	...Cobalt containing
72	..Eight percent or more manganese containing	103	.Over 0.1 percent aluminum containing, but less than 4 percent
73	..Nickel containing	104	.Chromium containing, but less than 9 percent
74	..Chromium containing	105	..Molybdenum containing
75	..Titanium containing	106	...Boron or beryllium containing
76	..Copper containing	107	...Cobalt containing
77	..Four percent or more aluminum containing	108	...Nickel containing
78	..Over 2 percent silicon containing	109	...Vanadium, titanium or zirconium containing
79	..Chromium containing	110	...Titanium, zirconium or niobium containing
80	..Nickel or cobalt containing	111	...Vanadium containing
81	..Zirconium, vanadium or titanium containing	112	..Nickel containing
82	..Noble metal containing	113	...Tungsten containing
83	..Rare earth metal containing	114	..Tungsten containing
84	..Lead, bismuth, selenium, tellurium or calcium containing	115	..Processes
85	..Processes	116	...Including reducing a chromium compound
86	...Adding lead	117	.Two percent or more silicon containing
		118	..Titanium, molybdenum, tungsten or vanadium containing
		119	.Nickel containing, but 10 percent or less

120	.1.5 percent or more manganese containing, but less than 8 percent	435	<b>COBALT BASE</b>
121	.Boron containing	436	.Chromium containing
122	.Tungsten containing	437	..Aluminum containing
123	.Molybdneum containing	438	...Titanium containing
124	..Vanadium, tantalum or titanium containing	439	..Titanium containing
125	.Zirconium containing	440	..Iron containing
126	.Titanium containing	441	<b>NICKEL BASE</b>
127	.Vanadium, tantalum or niobium containing	442	.Chromium containing
128	.Nitrogen containinig	443	..Rare earth, magnesium or alkaline earth metal containing
129	.Processes	444	..Noble metal containing
400	<b>ALKALI METAL BASE</b>	445	..Aluminum containing
401	<b>BERYLLIUM BASE</b>	446	...Titanium containing
402	<b>MAGNESIUM BASE</b>	447	....Tantalum, niobium, vanadium, or hafnium containing
403	.Silver containing	448	.....Molybdenum or tungsten containing
404	..Manganese containing	449	....Zirconium or boron containing
405	.Lanthanide containing	450	...Molybdenum or tungsten containing
406	..Zirconium containing	451	..Titanium containing
407	.Aluminum containing	452	..Iron or manganese containing
408	..Zinc containing	453	...Molybdenum or tungsten containing
409	..Manganese containing	454	....Cobalt containing
410	..Manganese containing	455	.Rare earth containing
411	.Zinc containing	456	.Noble metal containing
412	..Manganese containing	457	.Copper containing
413	.Manganese containing	458	..Iron containing
414	.Zirconium containing	459	.Iron or manganese containing
415	<b>ALKALINE EARTH METAL BASE</b>	460	.Aluminum containing
416	<b>RARE EARTH METAL BASE SINGLY OR IN COMBINATION</b>	461	<b>OSMIUM OR IRIDIUM BASE</b>
417	<b>TITANIUM BASE</b>	462	<b>RUTHENIUM OR RHODIUM BASE</b>
418	.Aluminum containing	463	<b>PALLADIUM BASE</b>
419	..Tin containing	464	.Copper containing
420	..Vanadium containing	465	.Platinum containing
421	.Chromium or molybdenum containing	466	<b>PLATINUM BASE</b>
422	<b>ZIRCONIUM OR HAFNIUM BASE</b>	467	.Rhodium containing
423	.Copper containing	468	.Nickel containing
424	<b>VANADIUM BASE</b>	469	<b>COPPER BASE</b>
425	<b>NIOBIUM BASE</b>	470	.Tin containing
426	.Titanium, zirconium, or hafnium containing	471	..Aluminum containing
427	<b>TANTALUM BASE</b>	472	..Phosphorus containing
428	<b>CHROMIUM BASE</b>	473	..Iron, manganese or nickel containing
429	<b>MOLYBDENUM BASE</b>	474	..Lead containing
430	<b>TUNGSTEN BASE</b>	475	...Zinc containing
431	.Carbon, boron or nitrogen containing	476	..Zinc containing
432	.Rhenium or noble metal containing	477	.Zinc containing
433	<b>RHENIUM BASE</b>	478	..Aluminum containing
434	<b>MANGANESE BASE</b>	479	...Nickel containing
		480	...Manganese containing
		481	..Nickel containing

482	..Manganese containing	525	<b>CADMIUM BASE</b>
483	..Noble metal containing	526	<b>MERCURY BASE</b>
484	..Refractory metal containing	527	.Silver containing
485	..Nickel containing	528	<b>ALUMINUM BASE</b>
486	..Aluminum containing	529	.Copper containing
487	..Iron or manganese containing	530	..Tin containing
488	..Refractory metal containing	531	..Zinc containing
489	.Aluminum, gallium, indium, or thallium containing	532	...Magnesium containing
490	.Silicon containing	533	..Magnesium containing
491	.Lead containing	534	...Silicon containing
492	.Titanium, zirconium or hafnium containing	535	...Titanium, zirconium, hafnium, vanadium, niobium, or tantalum containing
493	.Manganese containing	536	...Cadmium, lead or bismuth containing
494	.Beryllium, magnesium, or alkaline earth metal containing	537	..Silicon containing
495	.Other refractory metal containing	538	..Iron, cobalt, or nickel containing
496	.Iron or cobalt containing	539	..Silver containing
497	..Noble metal containing	540	.Zinc containing
498	.Cadmium, or mercury containing	541	..Magnesium containing
499	.Phosphorus, arsenic, antimony, or bismuth containing	542	.Magnesium containing
500	.Sulfur, selenium, or tellurium containing	543	..Titanium, zirconium, hafnium, vanadium, niobium, or tantalum containing
501	<b>SILVER BASE</b>	544	...Silicon containing
502	.Copper containing	545	...Chromium containing
503	..Other noble metal containing	546	..Silicon containing
504	..Zinc, or cadmium containing	547	..Iron, cobalt, or nickel containing
505	..Other noble metal containing	548	.Silicon containing
506	.Zinc, or cadmium containing	549	..Alkali, or alkaline earth metal containing
507	<b>GOLD BASE</b>	550	.Iron, cobalt, or nickel containing
508	.Palladium containing	551	..Titanium, zirconium, hafnium, vanadium, niobium or tantalum containing
509	..Platinum containing	552	.Titanium, zirconium, hafnium, vanadium, niobium, or tantalum containing
510	.Platinum containing	553	..Manganese containing
511	.Silver containing	554	.Cadmium, lead, or bismuth containing
512	.Iron, cobalt, or nickel containing	555	<b>GALLIUM, INDIUM, OR THALLIUM BASE</b>
513	<b>ZINC BASE</b>	556	<b>GERMANIUM BASE</b>
514	.Aluminum containing	557	<b>TIN BASE</b>
515	..Copper containing	558	.Lead containing
516	..Magnesium containing	559	..Antimony, or bismuth containing
517	...Tin containing	560	.Copper containing
518	...Manganese, iron, cobalt, or nickel containing	561	..Antimony, or bismuth containing
519	..Magnesium containing	562	.Antimony, or bismuth containing
520	..Manganese, iron, cobalt, or nickel containing	563	<b>LEAD BASE</b>
521	.Copper containing	564	.Alkali, alkaline earth metal or magnesium containing
522	..Manganese, iron, cobalt, or nickel containing		
523	.Cadmium containing		
524	.Tin containing		

565 ..Tin containing  
566 .Silver containing  
567 .Arsenic containing  
568 ..Tin containing  
569 ...Antimony containing  
570 .Tin containing  
571 ..Antimony containing  
572 .Antimony containing  
573 .Copper containing  
574 .Zinc containing  
575 .Cadmium containing  
576 **ANTIMONY BASE**  
577 **BISMUTH BASE**  
578 **SILICON BASE ALLOY CONTAINING  
METAL**  
579 **ARSENIC BASE OR SELENIUM OR  
TELLURIUM BASE ALLOY  
CONTAINING METAL**  
580 **CONTAINING OVER 50 PER CENT METAL  
BUT NO BASE METAL**  
581 .Iron containing  
582 ..Copper containing  
583 ..Chromium containing  
584.1 ...Nickel containing  
585 ....Cobalt containing  
586 .....Titanium, or zirconium  
containing  
586.1 ....Molybdenum containing  
587 .Copper containing  
588 .Chromium containing  
589 .Tin containing  
590 **PROCESSES**  
591 **MISCELLANEOUS**

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