

SUBJECT 19

SUBJECT 19: Magnesium Metal or Magnesium Metal Alloys

Re: Magnesium Metal or Magnesium Metal Alloys

Contact: Lanae Peterson

FCDC@nmfta.org

Proponent: Freight Classification Development Center

Quick View

The Quick View feature is not intended to replace contextual information within this document. To understand the potential impact of the recommended changes shown here, please read the full proposal.

Subject 19: Magnesium Metal or Magnesium Metal Alloys

Quick View: Sixteen items related to magnesium metal or magnesium metal alloys are canceled with reference to provisions found elsewhere within this Classification, dependent upon the commodities' overall representation and intended use.

- Five Notes canceled with no further application
- New Note established attendant to item 135955
- Generic heading, item 133600, canceled with no further application

Transportation Characteristics Present:

- Handling ☐Yes ☒No Stowability ☐Yes ☒No Liability ☐Yes ☒No Density ☒Yes ☐No

Provisions based on:

- The involved commodities' representation and intended use

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Present Classification Provisions

Item	Description	Class
	CHEMICALS GROUP: subject to item 42600	
44515	 Flammable Solid, Spontaneously Combustible or Dangerous When Wet Materials , NOI, see Note, item 44516, in U.S. DOT-authorized packaging:	
Sub 1	Offered for transportation as a Hazard Class 4, Division 4.3:	
Sub 2	In Packing Group I.....	110
Sub 3	In Packing Group II.....	100
Sub 4	In Packing Group III.....	92.5
Sub 5	Offered for transportation as a Hazard Class 4, Division 4.2:	
Sub 6	In Packing Group I.....	150
Sub 7	In Packing Group II.....	92.5
Sub 8	In Packing Group III.....	85
Sub 9	Offered for transportation as a Hazard Class 4, Division 4.1:	
Sub 10	In Packing Group I.....	125
Sub 11	In Packing Group II.....	85
Sub 12	In Packing Group III.....	77.5
44516	NOTE—Applies on materials regulated by the U.S. Department of Transportation as a Hazard Class 4: Division 4.1, Flammable Solid, other than Self-reactive Material; Division 4.2, Spontaneously Combustible Material; or Division 4.3, Dangerous When Wet Material; as defined in 49 CFR §173.124 and required to bear a notice to that effect on bills of lading and packaging. For classes applicable to Self-reactive Material, see item 46047.	
133600	MAGNESIUM METAL OR MAGNESIUM METAL ALLOYS:	
133620	Angles or Beams; or Bars or Rods , NOI; in packages.....	70
133640	Anodes , cast, with or without wire leads, packed in cloth sacks containing not less than 60 percent earthen backfill material.....	60
133650	Anodes , cast, with or without wire leads, NOI.....	65
133660	Anodes , other than cast, with or without metal fittings, in packages	70
133680	Articles , NOI, or Forms or Shapes , NOI, in boxes, crates or drums.....	150
133700	Blanks, Extrusions, Moldings or Stampings , NOI, see Note, item 133701, in packages, having a density of 15 pounds or greater per cubic foot, see Note, item 133703	70
133701	NOTE—Applies only on articles manufactured solely by a blanking, extruding or stamping process.	
133703	NOTE—Density must be shown by shipper on shipping orders and bills of lading at time of shipment. If density is not shown and shipment is inadvertently accepted, class will initially be assessed under the provisions of item 133680, naming 'Magnesium Metal or Magnesium Metal Alloy Articles, NOI, or Forms or Shapes, NOI.' Upon satisfactory proof of actual density, class will be adjusted accordingly.	

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Present Classification Provisions—Continued

Item	Description	Class
	MAGNESIUM METAL OR MAGNESIUM METAL ALLOYS: subject to item 133600	
133720	Buffings or Grindings	0
133740	Castings or Forgings , NOI, see Note, item 133742, in packages, having a density of 15 pounds or greater per cubic foot, see Note, item 133743	70
133742	NOTE—Applies only on articles manufactured solely by a casting or forging process.	
133743	NOTE—Density must be shown by shipper on shipping orders and bills of lading at time of shipment. If density is not shown and shipment is inadvertently accepted, class will initially be assessed under the provisions of item 133680, naming 'Magnesium Metal or Magnesium Metal Alloy Articles, NOI, or Forms or Shapes, NOI.' Upon satisfactory proof of actual density, class will be adjusted accordingly.	
133760	Channels , in packages	70
133770	Dollies , pallet, without standing ends, sides, stakes or standards, in packages	100
133780	Forging Stock , in packages	65
133800	Ingots, Pigs, Blooms, Billets, Slabs, Rods or Bars , see Note, item 133802.....	60
133802	NOTE—Applies on materials, rough hot extruded, or cast, to be re-heated for purpose of re-rolling, re-extruding, forging or remelting.	
133830	Plates, Sheets or Strips , in boxes or crates, or securely fastened to lift truck skids or pallets; or Plates ½ inch thick or over, loose or in packages	65
133870	✪ Scrap , in packages.....	60
133890	Sticks , suitable only for regrinding or remelting, in packages	65
133910	Turnings , NOI, in drums or pails	70
	METALS GROUP: subject to item 135300	
135955	Metals or Metal Alloys , see Note, item 135956, viz.: Anodes , NOI, in packages; Articles , NOI, in packages; Bars , NOI, in packages; Billets , NOI, in packages; Blanks , NOI, in packages; Blooms , NOI, in packages; Cakes , NOI, in packages; Castings , NOI, in boxes, crates or drums; Circles , NOI, in boxes; Dross, Skimmings, or Sludge , in bags, boxes or drums; Disks , NOI, in boxes; Forgings , NOI, in packages; Forms or Shapes , NOI, consisting of one piece of metal, in packages; Ingots , NOI, in packages; Metals or Metal Alloys , NOI, in packages;	

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Present Classification Provisions—Continued

Item	Description	Class
	METALS GROUP: subject to item 135300	
	Metals or Metal Alloys , see Note, item 135956, viz.: subject to item 135955	
	Pigs , NOI, in packages;	
	Plates , NOI, in packages;	
	Powder , NOI, in bags, boxes or drums;	
	Residue , NOI, in boxes or drums;	
	Rings , NOI, in packages;	
	Rods , NOI, in packages;	
	Scrap , NOI, in packages;	
	Sheets , NOI, in packages;	
	Shot , NOI, in packages;	
	Slab , NOI, in packages;	
	Solder , NOI, in packages;	
	Speiss (smelter by-product, containing cobalt-nickel), in bags or drums;	
	Sponge , NOI, in packages;	
	Strip , NOI, in boxes;	
	Turnings , NOI, other than scrap, in boxes or drums;	
	Welding Rods or Wire , NOI, in packages or on reels;	
	Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5	70
Sub 10	22.5 but less than 30	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater	50
135956	NOTE—Does not apply on alloys containing gold, silver, palladium or platinum.	

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Present Classification Provisions—Concluded

Item	Description	Class
	VEHICLES, OTHER THAN SELF-PROPELLED, GROUP: subject to item 188500	
189800	Vehicles , other than self-propelled, viz.: Barrows, Carts, Trucks, Wagons or Wheelbarrows , NOI, hand, in packages; [Other Articles Listed—Not Involved.] Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5	70
Sub 10	22.5 but less than 30	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater	50

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SUBJECT 19

Proposed Classification Provisions

Item	Description	Class
	CHEMICALS GROUP: subject to item 42600	
44515	 Flammable Solid, Spontaneously Combustible or Dangerous When Wet Materials , NOI, see Note, item 44516, in U.S. DOT-authorized packaging:	
Sub 1	Offered for transportation as a Hazard Class 4, Division 4.3:	
Sub 2	In Packing Group I.....	110
Sub 3	In Packing Group II.....	100
Sub 4	In Packing Group III.....	92.5
Sub 5	Offered for transportation as a Hazard Class 4, Division 4.2:	
Sub 6	In Packing Group I.....	150
Sub 7	In Packing Group II.....	92.5
Sub 8	In Packing Group III.....	85
Sub 9	Offered for transportation as a Hazard Class 4, Division 4.1:	
Sub 10	In Packing Group I.....	125
Sub 11	In Packing Group II.....	85
Sub 12	In Packing Group III.....	77.5
44516	NOTE—Applies on materials regulated by the U.S. Department of Transportation as a Hazard Class 4: Division 4.1, Flammable Solid, other than Self-reactive Material; Division 4.2, Spontaneously Combustible Material; or Division 4.3, Dangerous When Wet Material; as defined in 49 CFR §173.124 and required to bear a notice to that effect on bills of lading and packaging. For classes applicable to Self-reactive Material, see item 46047.	
133600	MAGNESIUM METAL OR MAGNESIUM METAL ALLOYS:	⇒Cancel; no further application
133620	Angles or Beams; or Bars or Rods , NOI, etc	⇒Cancel; see item 135955
133640	Anodes , cast, with or without wire leads, packed in cloth sacks containing not less than 60 percent earthen backfill material	⇒Cancel; see item 135955
133650	Anodes , cast, with or without wire leads, NOI	⇒Cancel; see item 135955
133660	Anodes , other than cast, with or without metal fittings, etc	⇒Cancel; see item 135955
133680	Articles , NOI, or Forms or Shapes , NOI, etc	⇒Cancel; see item 135955
133700	Blanks, Extrusions, Moldings or Stampings , NOI, etc	⇒Cancel; see item 135955

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Proposed Classification Provisions—Continued

Item	Description	Class
	MAGNESIUM METAL OR MAGNESIUM METAL ALLOYS: subject to item 133600	
133701	NOTE—⇒Cancel; no further application.	
133703	NOTE—⇒Cancel; no further application.	
133720	Buffings or Grindings ⇒Cancel; see item 44515 and 135955	
133740	Castings or Forgings , NOI, etc ⇒Cancel; see item 135955	
133742	NOTE—⇒Cancel; no further application.	
133743	NOTE—⇒Cancel; no further application.	
133760	Channels , etc ⇒Cancel; see item 135955	
133770	Dollies , pallet, without standing ends, sides, stakes or standards, etc..... ⇒Cancel; see item 189800	
133780	Forging Stock , etc ⇒Cancel; see item 135955	
133800	Ingots, Pigs, Blooms, Billets, Slabs, Rods or Bars , etc ⇒Cancel; see item 135955	
133802	NOTE—⇒Cancel; no further application.	
133830	Plates, Sheets or Strips , etc..... ⇒Cancel; see item 135955	
133870	Scrap , etc ⇒Cancel; see items 44515 and 135955	
133890	Sticks , suitable only for regrinding or remelting, etc ⇒Cancel; see item 135955	
133910	Turnings , NOI, etc ⇒Cancel; see item 135955	

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Proposed Classification Provisions—Continued

Item	Description	Class
	METALS GROUP: subject to item 135300	
135955	Metals or Metal Alloys, $\Rightarrow$not required by the U.S. Department of Transportation to bear a Hazard Class or Hazard Division label or placard, see Notes, items 135956 and $\Rightarrow$NEW, viz.: $\Rightarrow$Angles or Beams, NOI, in packages; Anodes, NOI, in packages; Articles, NOI, in packages; Bars, NOI, in packages; Billets, NOI, in packages; $\Rightarrow$Blanks, NOI, in packages; $\Rightarrow$Blanks or Stampings, NOI, in packages; Blooms, NOI, in packages; Cakes, NOI, in packages; $\Rightarrow$Castings, NOI, in boxes, crates or drums; $\Rightarrow$Castings or Extrusions, NOI, in boxes, crates or drums; $\Rightarrow$Channels, in packages; Circles, NOI, in boxes; Dross, Skimmings, or Sludge, in bags, boxes or drums; Disks, NOI, in boxes; Forgings, NOI, in packages; Forms or Shapes, NOI, consisting of one piece of metal, in packages; Ingots, NOI, in packages; Metals or Metal Alloys, NOI, in packages; $\Rightarrow$Moldings, NOI, in boxes or crates; Pigs, NOI, in packages; Plates, NOI, $\Rightarrow$in bundles, boxes, crates, drums or rolls; Powder, NOI, in bags, boxes or drums; Residue, NOI, in boxes or drums; Rings, NOI, in packages; Rods, NOI, in packages; Scrap, NOI, in packages; Sheets, NOI, $\Rightarrow$in bundles, boxes, crates, drums or rolls Shot, NOI, in packages; Slab, NOI, in packages; Solder, NOI, in packages; Speiss (smelter by-product, containing cobalt-nickel), in bags or drums; Sponge, NOI, in packages; Strip, NOI, $\Rightarrow$in bundles, boxes, crates, drums or rolls; $\Rightarrow$Sticks, suitable only for regrinding or remelting, in packages; $\Rightarrow$Swarf, NOI, in bags, boxes, drums or pails;	

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Proposed Classification Provisions—Continued

Item	Description	Class
	METALS GROUP: subject to item 135300	
	Metals or Metal Alloys , not required by the U.S. Department of Transportation to bear a Hazard Class or Hazard Division label or placard, see Notes, items 135956 and NEW, viz.: subject to item 135955	
	Turnings , NOI, other than scrap, in boxes or drums;	
	Welding Rods or Wire , NOI, in packages or on reels;	
	Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5	70
Sub 10	22.5 but less than 30	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater	50
135956	NOTE—Does not apply on alloys containing gold, silver, palladium or platinum.	
⇒NEW	NOTE—Does not apply on materials regulated by the U.S. Department of Transportation as hazardous and required to bear a Hazard Class or Hazard Division label or placard. For classes applicable to such hazardous materials, see provisions elsewhere in this Classification.	

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SUBJECT 19

Proposed Classification Provisions—Concluded

Item	Description	Class
	VEHICLES, OTHER THAN SELF-PROPELLED, GROUP: subject to item 188500	
189800	Vehicles , other than self-propelled, viz.: Barrows, Carts, Trucks, Wagons or Wheelbarrows , NOI, hand, in packages; [Other Articles Listed—No Change.] Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5	70
Sub 10	22.5 but less than 30	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater	50

Analysis

Introduction

Sixteen items subject to the Magnesium Metal or Magnesium Metal Alloys generic heading, as shown in the Present Classification Provisions herein, name particular types of products composed of magnesium metal or magnesium metal alloys, and these provisions can be difficult to interpret, apply, or verify.

Transportation Characteristics

Handling, Stowability, and Liability—There have been no reports of unusual or significant handling, stowability, or liability issues²¹. Therefore, density has been identified as the primary transportation characteristic.

²¹ Magnesium buffings, grindings, or scrap, as named in items 133720 and 133870, are excepted from this statement.

SUBJECT 19**Conclusion**

Based on the foregoing analysis, items 133620, 133640, 133650, 133660, 133680, 133700, 133720²², 133740, 133760, 133780, 133800, 133830, 133870²², 133890, and 133910 would be canceled with reference to the full-scale, density-based provisions of item 135955²³ and the "viz." listing amended. Five Notes would be canceled with no further application, and a new attendant Note would be established to clarify the application of item 135955.

Item 133770 would be canceled with reference to the full-scale, density-based provisions of item 189800²³.

Furthermore, the Magnesium Metal or Magnesium Metal Alloys generic heading, item 133600, would be canceled with no further application.

The FCDC's Lead Classification and Packaging Analyst has reviewed the proposed minimum packaging requirements and determined they are appropriate for the LTL environment.

²² Items 133720 and 133870 would be canceled with reference to items 44515 and 135955 dependent upon whether or not the particular product shipped is regulated as hazardous by the U.S. Department of Transportation.

²³ Items 133955 and 189800 provide the FCDC's 13-subprovision density scale, which includes reference to Item (Rule) 170, the inadvertence clause.