

SUBJECT 27

Re: Machines, pneumatic tire changing — Item 124670

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Proponent: Freight Classification Development Council

Present Classification Provisions

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
124670	Machines, pneumatic tire changing, iron or steel, air-powered or other than air-powered, or Parts thereof, NOI, in boxes or crates, or in Package 2190.....	77.5

Proposed Classification Provisions

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
⇒124670	Machines, pneumatic tire changing, iron or steel, air-powered or other than air-powered, or Parts thereof, NOI, in boxes, crates or Package 2190, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 10.....	125
Sub 2	10 or greater	77.5

Analysis

Introduction

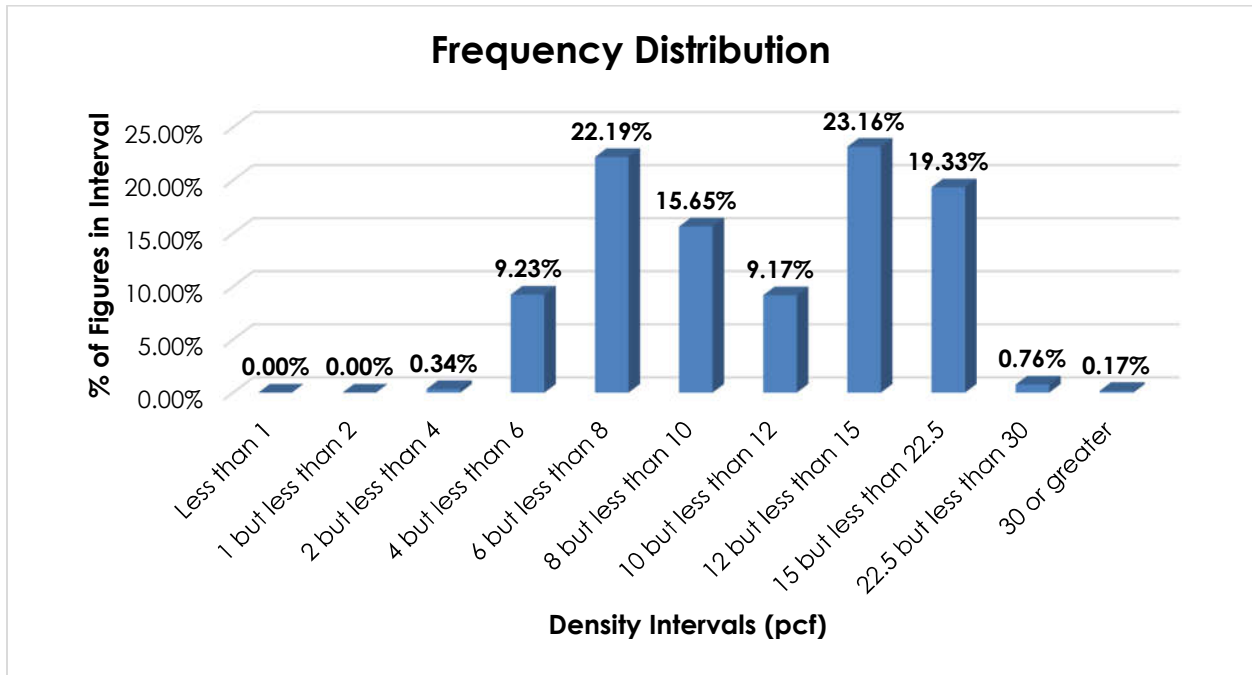
This proposal is based on information developed through Research Project 1482, which was initiated to review the transportation characteristics of pneumatic-tire changing machines, as embraced by item 124670.

Transportation Characteristics

Density—The information of record includes 12,641 density observations submitted by carriers and obtained from the FCDC’s Density Study¹. The densities range from 2.40 to 69.10 pcf, with an overall average density of 11.25 pcf. As shown in the graph on the following page, the density distribution has two predominant peaks at the 6 but less than 8 pcf, and 12 but less than 15 pcf intervals. A break at 10 pcf represents the modality and distribution of the figures.

¹ The Density Study is part of an ongoing effort by the FCDC to collect information on actual shipments across all product categories handled by the LTL industry. Carriers that choose to participate in the Study periodically submit shipment data captured through their respective freight auditing programs. The FCDC uses verifiable data points, identified by NMFC item, that include the weight and the dimensions and/or cube of the shipping unit.

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When the data is evaluated on the basis of the two proposed density groupings to reflect the distribution of densities, the following ranges and averages are calculated.

Density Group (pcf)	Density Range (pcf)	Average Density (pcf)
Less than 10	2.40 – 9.99	7.40
10 or greater	10.00 – 69.10	14.72

Handling, Stowability and Liability—There have been no reports of unusual or significant handling, stowability or liability concerns.

Conclusion

Based on the foregoing analysis, this proposal would amend item 124670 to provide classes predicated on a density break at 10 pcf², as shown in the table below, with classes reflective of the respective average densities of each grouping.

Density Group (pcf)	Average Density (pcf)	FCDC Minimum Average Density Guideline (pcf)	Class Based on FCDC Density Guidelines
Less than 10	7.40	7	125
10 or greater	14.72	13.5	77.5

² The density provisions would include reference to Item (Rule) 170, the inadvertence clause.