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Application Guidelines for 22.5 x 8.25 and 24.5 x 8.25 Wheels

Standard service Alcoa 22.5 x 8.25 and 24.5 x 8.25 wheels with load ratings from 7300lb to 7850lb are not recommended for use on steer axles with ratings greater than 15,700lb GAWR (regardless of how the front axle is rated on the vehicle placard), or on drive axles in vocational applications with ratings in excess of 24,000lb GAWR single axle or 48,000lb GAWR tandem axle (regardless of how the rear axle is rated on the vehicle placard). This includes Alcoa part numbers 883670, 983670, 983120, 883440, and all stylized proprietary hand hole wheels. All steer axles with ratings greater than 15,700lb or drive axles rated in excess of 24,000lb per axle in vocational applications or in applications where vehicles operate on unimproved roads more than 15 percent of the time, must use Alcoa Severe Service™ wheels part numbers 885670 for 22.5 x 8.25 applications, and 985670 for 24.5 x 8.25 applications, or a wide-base wheel with an appropriate load rating to maintain the full rating of the specified axle. Merely de-rating an axle by using a wheel combination that does not meet the full rating of the axle is not permitted, and will void the wheel warranty.

It is also recommended that Severe Service™ wheels are used in all applications that require a 22.5 x 8.25 or 24.5 x 8.25 wheel where multiple lift axles are present due to the high loads that are incurred by the remaining wheels when the lift axles are in a raised position.

If you have any questions regarding the correct wheel for a specific vehicle application, please contact an Alcoa Sales Representative or call 800.242.9898.

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