

Technology Bulletin

A PUBLICATION OF CONMET

Suggested Fill Volumes for Grade 00 Semi-Fluid Grease

PRODUCTS AFFECTED:

All ConMet iron and aluminum hubs fitting spindles of type TP or TN where semi-fluid grade 00 grease is used as a bearing lubricant.

SCOPE:

This bulletin lists suggested fill volumes of grade 00 grease for ConMet iron and aluminum hubs used on trailer spindle types TP and TN.

PROCEDURE:

TMC RP631 prescribes the recommended minimum level of semi-fluid grease that will work in most service conditions for the mileages stated in the RP. In this method, both bearing cones are pre-packed with grease. The outer bearing cone is removed and a makeshift barrier which covers up to the middle of the spindle is placed at the hubcap surface. Grease is pumped into the hub up to the middle of the spindle (50 percent fill) before replacing the outer cone, spindle nut(s), and hubcap. Take care not to misalign the seal when the outer cone is removed. Refer to RMC RP631 for more details.

ConMet manufactures hubs with a side fill hole present to eliminate the need to pre-pack the bearing cones and to allow for larger volumes of grease. ConMet recommends volumes listed below for extreme service conditions (ambient temperatures below 0° C and above 30° C, or extended service intervals). These volumes do not require pre-packing of the bearing cones, and must be filled through the hub fill hole located between the two bearings. The procedures and fill volumes listed here can be used for all environmental conditions. The recommended minimum amount of semi-fluid lubricant to be installed in a hub is as follows:

HUB TYPE	HUB MATERIAL	CASTING NUMBERS ²	PRESET [®] VOLUME ^{1,3} (FL OZ)	NON-PRESET [®] VOLUME (FL OZ)
TN	Aluminum	102035 / 102610 / 10017979 / 10001896	18.8	21.8
		100164 / 101143	22.6	25.6
	Iron	10083541 / 10083557	25.0	28.0
		10003636 / 10020219	27.0	30.0
TP	Aluminum	10023666 / 10033293 / 10083937	23.0	26.0
		100510 / 101259 / 10001216 / 10016225 / 10033028	41.4	41.4
	Iron	10016620	46.9	46.9
		10003654 / 10009758 / 10083549 / 10083565	55.0	55.0
		10025633 / 10033241 / 10083939	35.0	35.0

1 Fill volumes were established with ConMet Hub Caps and FNOK Seals

2 Hub Casting Numbers can be found cast onto the flange of the hub

3 Fill volumes apply to hub **without pre-packed bearings** with grease **installed through the fill hole**

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