



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 - CONVENTIONAL HUBS ONLY (NOT PRESET® OR PRESET PLUS®)

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 TMC RP631 for more details.

PROCEDURE - FILL THROUGH PORT IN HUB BARREL - ALL HUB TYPES

ConMet manufactures hubs with a fill port in the barrel of the hub to eliminate the need to pre-pack the bearing cones and to allow for larger volumes of grease. For best results, maintain grease at or above room temperature when filling. Begin filling the hub with the hub rotated so that the fill port is at the 9 o'clock position and rotate it up to the 12 o'clock position as the hub fills. This will help avoid an air lock and allow all of the grease into the cavity. This procedure and the fill volumes listed below do not required pre-packing of the bearing cones and must be filled through the hub fill hole located between the two bearings. These volumes can be used for all environmental conditions. The suggested minimum amount of semi-fluid lubricant to be installed in a hub is as follows:

HUB TYPE	HUB MATERIAL	CASTING NUMBERS ²	PRESET/PRESET PLUS VOLUME ^{1,3} (FL OZ)	NON-PRESET VOLUME (FL OZ)
TN	Aluminum	102035 / 102610 / 10017979 / 10001896 / 10086537 / 10086539	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	100510 / 101259 / 10001216 / 10016225 / 10033028 / 10086449 / 10086451	41.4	41.4
		10016620	46.9	46.9
	Iron	10003654 / 10009758 / 10034367 / 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**

The information in this Technology Bulletin is intended as a reference source only. Consolidated Metco does not assume any liability in the event of improper use or mis-match of components. For additional information, visit our web site at www.conmet.com or call (800) 547-9473.