

## SAFETY INSTRUCTIONS

# DURAN® Vacuum Desiccator

DN	DURAN® Vacuum Desiccator, with NOVUS standard ground joint		DURAN® Vacuum Desiccator, type MOBILEX (GL 32)		DURAN® Vacuum Desiccator, type MOBILEX (GL 32) with screw cap from PBT	DURAN® Desiccator, with knobbed lid, without connection
	with porcelain plate	without porcelain plate	with porcelain plate	without porcelain plate	without porcelain plate	without porcelain plate
100	-	24 782 46 04	-	-	-	24 781 46 03
150	24 782 57 52	24 782 57 03	24 783 57 53	24 785 57 06	24 786 57 07	24 781 57 02
200	24 782 61 57	24 782 61 08	24 783 61 58	24 785 61 02	24 786 61 03	24 781 61 07
250	24 782 66 54	24 782 66 05	24 783 66 55	24 785 66 08	24 786 66 09	24 781 66 04
300	24 782 69 54	24 782 69 05	24 783 69 55	24 785 69 08	24 786 69 09	24 781 69 04

<sup>1</sup>incl. DURAN® Stopcock with PTFE Spindle NS 24/29 (Cat. No. 24 799 04 01), <sup>2</sup>incl. DURAN® Stopcock with PTFE Spindle GL 32 (Cat. No. 24 797 03 05) and PBT Screw Cap with aperture



**DURAN  
WHEATON  
KIMBLE**

Excellence in your hands

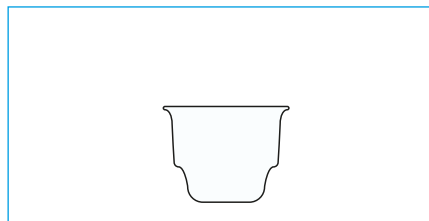
**ATTENTION:** The safety instructions are only valid for original DURAN® products. Therefore, please pay attention to the DURAN® trademark which guarantees proven DURAN® quality and highest safety during application.

## Working under vacuum

- Vacuum-tight due to their special geometry and high wall thickness, i.e. they can be used up to the technically maximum possible vacuum.
- Optimum safety for user.
- DURAN® Desiccators conform with DIN ISO 13130.
- Due to the high wall thickness and the reduced thermal shock resistance under pressure loading, the desiccators must not be heated on one side only or heated using an open flame (see also chapter 5.1.6 „Richtlinie für Laboratorien“ BGR/GUV-R 120).
- Before evacuation, the glass surfaces of the DURAN® desiccators have to be checked for damages such as scratches, cracks or nicks. Damaged products must not be used for safety reasons (see also chapter 5.1.6 „Richtlinie für Laboratorien“ BGR/GUV-R 120).
- Never expose desiccators to abrupt pressure changes (do not suddenly ventilate evacuated vessels).
- When used under positive or negative pressure, and especially when also working with differential temperatures, additional care measures must be taken.
- Glass apparatus that is under pressure or vacuum should only be subject to further strain (e.g. significant temperature change) with extreme caution, as the individual resulting stresses are additive and could readily result in failure.
- Due to the high wall-thickness of the vessels and the exact machining of the vacuum-tight ground joints on the lid and base, storage under vacuum is possible - even over extremely long periods.
- Before using, the ground joints must be well greased with appropriate joint grease.

## DURAN® Desiccator: Instructions for use

### Step 1



Check surface for scratches, etc.

### Step 2



Fill with dry powder(not supplied).

### Step 3



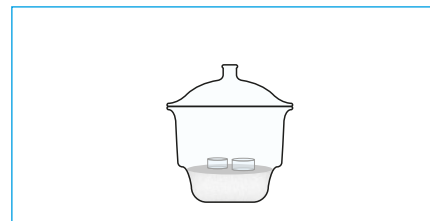
Insert desiccator plate. (Available made from porcelain or stainless steel)

### Step 4



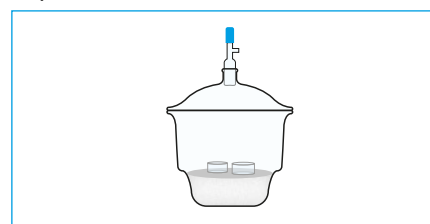
Insert sample vessel (not supplied).

### Step 5.1



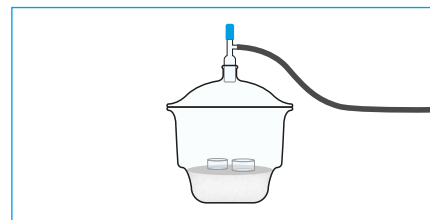
Grease flat flange and position lid with junction tube.

### Step 5.2



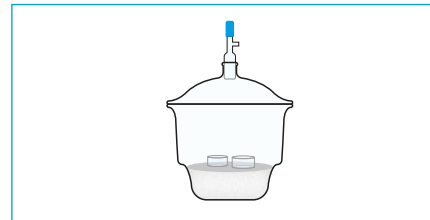
Grease stopcock and insert.

### Step 5.3



Connect hose, connect pump, open stopcock and create vacuum, close stopcock.

### Step 6



To ventilate and open the desiccator turn slightly the stopcock, allow air to enter slowly. After pressure equalisation carefully push the lid until it moves.

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