



DILAVEST™

thermostat waxes

Expanding to the point!

waxes | adhesives | dispersions

 **paramelt**

experience. performance.

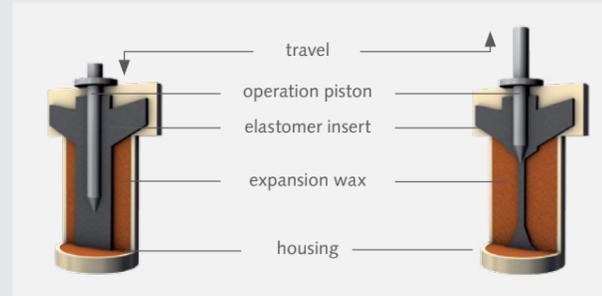
DILAVEST™ as an expansion wax in mechanical pressure and temperature controllers



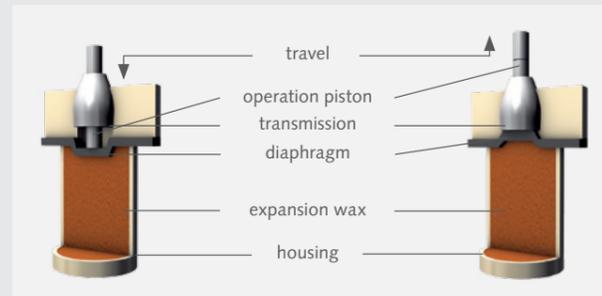
DILAVEST™ is the product name of Paramelt thermostat waxes or expansion waxes. These waxes are used in control valves which operate on the piston stroke principle (see illustrations). Valves of that kind are mainly used in the automotive industry (DILAVEST™ P-grades) and for the heating & ventilation sector, e.g. in radiator valves (DILAVEST™ L-grades).

Advantages of DILAVEST™ expansion wax technology

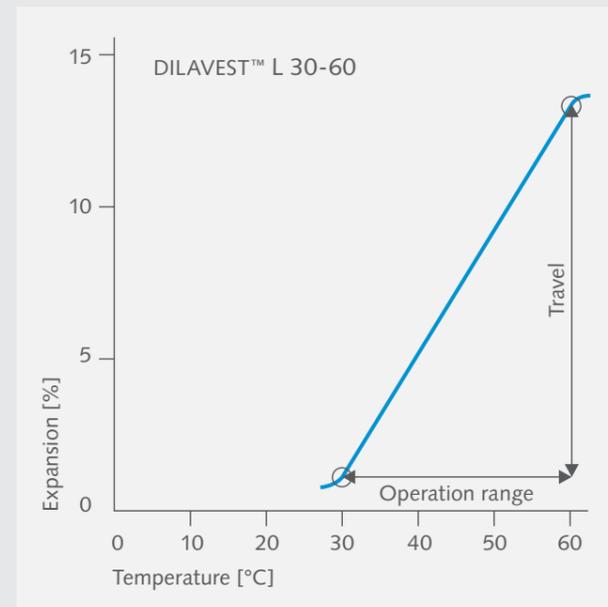
- small dimensions
- high driving forces
- large adjusting distance
- great control accuracy
- insensitive to mechanical vibrations
- maintenance-free
- long service life



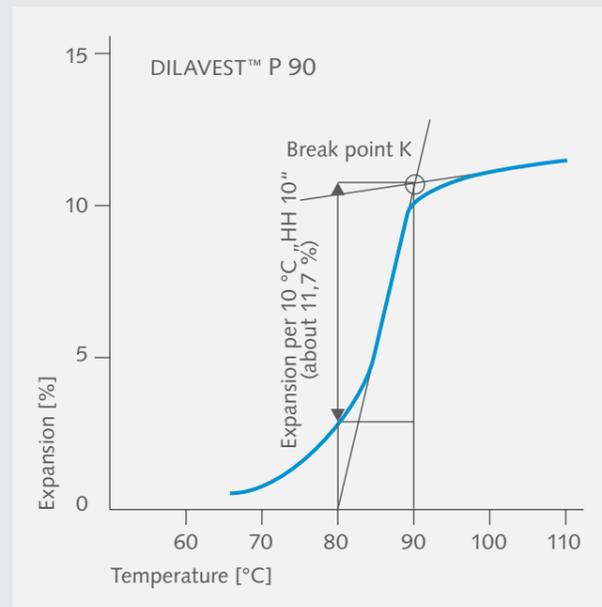
Mechanism of the wax controller with elastomer insert



Mechanism of the wax controller with diaphragm



Dilavest™ L 30-60: A linear grade expansion wax – expands over a temperature range from 30°C to 60°C. Between these temperatures it can adjust, for example a hot water valve, that is to say it varies the valve opening continuously.



Paramelt classifies the control point expansion waxes – here Dilavest™ P 90 – on the basis of the so-called break point, K (K is the temperature at which the opening operation has been completed). The travel (HH 10) describes the expansion in percentage by volume within a temperature range of 10°C. HH 10 results from the difference between the expansion at the break point K and at 10°C below K.

Application	Thermostat wax	n-Alkanes DILAVEST C	Linear grades DILAVEST L	Control point grades DILAVEST P
Automotive industry				
Control of air intake (e.g. carburator, fuel injection) with n-alkanes in the temperature range from -16°C to + 40°C		•		
Adjustment of radiator cooling water with control point standard expansion waxes in the temperature range from 70°C to 98°C				•
Adjustment of radiator fan with control point standard expansion waxes in the temperature range from 80°C to 120°C				•
Adjustment of the oil system with control point standard expansion waxes and special grades in the temperature range from 80°C to 140°C				•
Aviation industry				
Control of the flow of lubricating and hydraulic oils in the cooling system				•
Heating & ventilation sector				
Regulation of radiator valves			•	
Regulation of heated water for domestic use			•	
Regulation of boilers				•
Control of radiant (underfloor) heating				•
The DILAVEST range offers tailor-made expansion waxes for all types of applications.		DILAVEST C 10 DILAVEST C 11 ↓ DILAVEST C 17 DILAVEST C 18	DILAVEST L 0-30 DILAVEST L 30-60 And other grades produced to customers requirements	DILAVEST P 45 DILAVEST P 47 ↓ DILAVEST P 119 DILAVEST P 120 Control point grade waxes below 45°C or above 120°C can be developed and produced on request
Expansion reducer				
DILAVEST PM: For various temperature ranges				



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Founded in 1898, Paramelt has over 100 years of experience and today is a global producer of wax blends, adhesives and specialty dispersions. Operating from production sites in The Netherlands, the USA and China we work together in a team of about 400 employees around the world. In most of our core applications Paramelt is the acknowledged market leader.

DILAVEST™ is a registered trademark of Paramelt

Information and details given in this document, particularly any recommendations for application and use of our products are based on careful laboratory tests and prevailing practical experience and are believed to be correct at time of publication. The information is not binding, which is also generally true for our practical customer service, given verbally, in writing and by tests. Due to (possibly varying) conditions of transport, storage, process, substrate use or product application (which are beyond our knowledge and control), we strongly recommend to carry out sufficient tests in order to ensure that our products are suitable for the intended processes and applications. Further, it is the user's obligation to utilize this material with due care, in accordance with the information in the Material Safety Datasheet (and with the information given in any other way by Paramelt) and in full compliance with health, safety and environmental regulations. Whilst proper care has been taken in the preparation of this document, no liability for damage or injury resulting from its use is accepted, other than the limited liability which may arise towards a contractual party on the basis of Paramelt's conditions of sale (a copy of these conditions is available on request). Paramelt's acceptance of any orders for this product is expressly conditional upon purchaser's assent to these conditions of sale. No information contained in this document (nor any information given verbally, in writing and by tests) is to be construed as permission, recommendation or inducement by Paramelt or its officers, employees or affiliates, to use any product or process so as to infringe upon or conflict with any patent. Paramelt does not attest or guarantee that the use of its products or processes will not infringe upon any patent; user is responsible for verifying its freedom to operate in any jurisdiction.