

SILENTLINE

Noise abatement laminated shims



Any mechanical assembly in working order generates vibrations that are source of harmful frequencies. As a solution to this critical drawback, LAMECO^{(1) + (2)} offers an innovative laminated product called SILENTLINE[®]. SILENTLINE[®] is a composite of metal and synthetic material, which has the key advantage of spreading the vibrational energy over a dramatically wider band (lower Q factor) - therefore dampening the transmission of potentially destructive harmful frequencies.

Advantages:

IMPROVED MECHANICAL CHARACTERISTICS

The mechanical characteristics of laminated shims are improved with this material. CETIM tested two probes, both in 0.08 inch / 2 mm thickness:

- The first one, of conventional form, entirely consisting of peelable metal foils: achieved Vickers value = 440 MPa
- The second one manufactured in the new material: achieved Vickers value = 510 MPa.

REDUCED WEAR AND TEAR

The SILENTLINE[®] laminated shims improve the operation of systems and machines which thus require less maintenance and are less subject to wear.

GREEN PRODUCT

- This product contributes to improvements of the working environment, of benefit to all users
- It makes it easier to achieve the demands of noise abatement legislation.

COMPETITIVE PRICE

The cost of SILENTLINE[®] laminated shims is virtually equivalent to that of shims made of other laminated Materials. So there is no economic obstacle to their use.

(1) SILENTLINE[®] - Trademark registered

(2) Europe: Patent No EP 0 667 233 B1

SILENTLINE

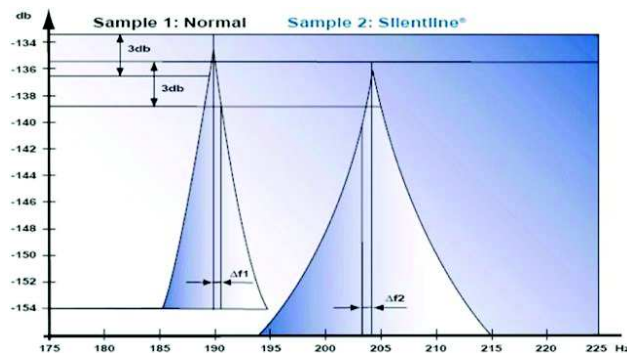
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Performances of SILENTLINE® laminated shims:

Tests carried out by CETIM on this new materiel show its capacity to tone down – in a spectacular way – the two consequences of a harmful frequency emission:

- Absorption or dampening and dispersion of 45 to 50 % of the **amplitude**;
- Reduction by 50 to 55 % of the **emission duration**.

This is therefore a high performance material.



Dimensions of SILENTLINE® products:

Specification / Material	Specific weight	Thickness of laminations (mm / inch)					
		Specification					
		0,010 / .0004	0,025 / .001	0,05 / .002	0,075 / .003	0,1 / .004	
		2	6	7	8	9	
Stainless steel							
SLS4	Z 10CN 18.09/AISI 302	8,2			X	X	X
SLS5	Z 6CN 18.10/AISI 304	8,2	X	X	X	X	X
SLS6	Z 2CN 18.10/AISI 304L	8,2			X	X	X
SLS7	AISI 316	8,2			X	X	
SLS8	Z 2CND 17.12/AISI 316L	8,2			X	X	X
Steel							
SLS9	C1010	7,85		X	X	X	X

LAMECO

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