

Product environmental attributes - THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	Think	Logo			
Company name *	Lenovo				
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com				
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html				
Additional information	The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html				

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.					
Type of product *	Workstation				
Commercial name *	ThinkStation P510				
Model number *	30B4,30B5				
Issue date *	2016-4-26				
Intended market *	☑ Global Europe Asia, Pacific & Japan Americas Other				
Additional information	ENERGY STAR® Qualified; EPEAT GOLD Rating; GREENGUARD Certified				

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality (Control	Requireme	nt met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	lc 🔀	

Model number *	30B4,30B5		
Issue date *	2016-4-26	Logo	Lenovo.

Product	duct environmental attributes - Legal requirements			t met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)			
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	\boxtimes		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\boxtimes	\Box	
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	\boxtimes		
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	\boxtimes		
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)			\boxtimes
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	\square		
	http://www.lenovo.com/social_responsibility/us/en/environment.html		ш	ш
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	\boxtimes		
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)			
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	\boxtimes		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).			
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\square	П	
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\boxtimes
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	l 🛛		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\boxtimes		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.			

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

Model number *	30B4,30B5		
Issue date *	2016-4-26	Logo	Lenovo.

Product	uct environmental attributes - Market requirements - Environmental conscious design		men	t mo	et
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n	ı.a.
P6	Treatment information				_
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).		Ш	Щ	
P7	Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable				
P7.2*	Plastic materials in covers/housing have no surface coating.		\boxtimes		
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	\boxtimes			\Box
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.			T	╗
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.			T	_
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).				
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\boxtimes			
P7.8*	Upgrading can be done using commonly available tools	\boxtimes			
P7.9.	Spare parts are available after end of production for: 5 years				
P7.10	Service is available after end of production for: 5 years				
	Material and substance requirements				
P7.11*	Product cover/housing material type:				
D7.40	Material type: PC/ABS Material type: Steel				
P7.12	Electrical cable insulation materials of power cables are PVC free.			<u>_</u>	_
P7.13	Electrical cable insulation materials of signal cables are PVC free	<u> </u> _			
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			<u> </u>	
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	=	\boxtimes		
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: >WOTE PC/ABS2000 <ul:e310240< td=""><td></td><td></td><td></td><td></td></ul:e310240<>				
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) , TBBPA (reactive) , Other; chemical name: DOPO, CAS #: 35948-25-5				
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4:				
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%:	n 🔀		Γ	
	Comment: No legal limits exist, this is a market requirement. 1. Chemical name: <i>Bisphenol-A Bis(Diphenyl Phosphate)</i> , CAS #: <i>5945-33-5</i> 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2				
	Chemical specifications of flame retardants in dplastic parts >25g according ISO 1043-4:				
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)				
P7.20	Of total plastic parts' weight >25g, recycled material content is 39.13%.				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.			K	
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg			<u> </u>	
P8	Batteries				
P8.1*	Battery chemical composition: Lithium Manganese Dioxide			<u> </u>	
P8 2	Batteries meet the requirements of the following voluntary program/s:			Г	- 1

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

Model number *	30B4,30B5		
Issue date *	2016-4-26	Logo	Lenovo.

Product envir	Product environmental attributes - Market requirements (continued) Requirement met					
Item					Yes No n.a	ā.
	rgy consumption					
9.1 For t	the product the f	ollowing power leve	els or energy cons	umptions are re		
Energy mode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *]
Peak (On-max)		257.77 W	250.23 W	243.30 W	Full load	J
Short Idle State	- WOL Enable	d 69.25 W	68.65 W	69.45 W	Use for ENERGY STAR V6 registration(P _{idle})	Ī
Long Idle State	- WOL Enabled	72.56 W	71.06 W	72.31 W	Use for ENERGY STAR V6 registration(P _{idle})	Ţ
Sleep (S3) - WC	L Enabled	4.49 W	4.50 W	4.52 W	Use for ENERGY STAR V6 registration (P _{sleep})	Ţ
Sleep (S3) - WC	L Disabled	W	W3	W	Reference	Ţ
Off (S5) - WOL	Enabled	1.91 W	1.94 W	1.96 W	Use for ENERGY STAR V6 registration(P _{off})	Ī
Off (S5) - WOL	Disabled	W	W	W	Use for EuP	Ī
EPS No-load		W	W	W		T
(External power plugged in the w disconnected fro	all outlet but	-				
PTEC * Typical Energy (Consumption	39.70 W	39.25 W	39.76 W	P _{TEC} = P _{OFF} ×T _{OFF} + P _{SLEEP} ×T _{SLEEP} + P _{LONG_IDEL} ×T _{LONG_IDEL} + P _{SHORT_IDLE} ×T _{SHORT_IDLE}]
TEC * Typical Energy 0	Consumption	kWh/week	kWh/week	kWh/week		1
ETEC * Annual Energy C	Consumption	kWh/year	kWh/year	kWh/year]
		P _{off} : Off Mode(S5	5) - WOL Enabled; I	P _{sleep} : Sleep Mode	(S3) - WOL Enabled; P _{idle} : Idle State - WOL Enabled	
Display resolutio	n* : Meç	gapixels				1
Print Speed *	: Ima	ges per minute				1
Default time to e	nter energy sav	e mode: 25 minutes	i			Ī
P9.2* Infor	mation about th	e energy save funct	ion is provided wit	th the product.		Ī
ENE	product meets t RGY STAR® veers specify:	he energy requiremersion: Version 6.1	ents of the following Tier: Pro-	ng voluntary prod duct category: <mark>N</mark>		_]
P10 Emissions						
		eclared according t	to ISO 9296	D. J. J.	Deduct A child	
P10.1 Mod	е мо	ode description		Declared A-weighted sound power level $L_{W\!Ad}$	er D_{pAm} (ab)	
Idle	*	HDD:Idle		* 3.86	30.6	ا ر
		HDD: Operating		* 3.86	32.1	i
Othe	er mode					-
Mea	sured according		ECMA-74			
	Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)					_
P10.2 The	P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:					

Chemical emissions from printing products P10.3* Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:	Model nu	mber *	30B4,30B5				
Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:	Issue date *		2016-4-26	Logo	Leno	VO .	
Chemical emissions from printing products	Product	environn	nental attributes - Market requirements (continued)		Requirer	nent	met
P10.3* Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:	Item				Yes	No	n.a.
P10.4 Typical emission rate (print phase) is (mg/h): Dust Ozone Styrene Benzene TVOC P10.5 Chemical emission requirements of the following voluntary program/s are met for: Dust Ozone Styrene Benzene TVOC P10.5 Chemical emissions P10.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: P10.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: P11.1 Consumable materials for printing products P11.1 A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3). P11.2 Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281. P11.3 2-sided (duplex) printing/copying is an integrated product function. P12 Ergonomics for computing products P12.1 The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies. P12.1 The display meets the ergonomic requirements of ISO 9995 and ISO 9241-410. P13 Packaging and documentation P13.1 Product packaging material type(s): carton weight (kg): 1.48 Product packaging material type(s): EPE weight (kg): 0.83 Prod		Chemica	al emissions from printing products				
P10.5 Chemical emission requirements of the following voluntary program/s are met for: Dust	P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				\boxtimes
P10.5 Chemical emission requirements of the following voluntary program/s are met for: Dust	P10.4	Typical e	mission rate (print phase) is (mg/h):				\boxtimes
Dust							
P10.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: P11. Consumable materials for printing products P11.1* A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3). P11.2* Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281. P11.3* 2-sided (duplex) printing/copying is an integrated product function. P12 Ergonomics for computing products P12.1* The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies. P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410. P13 Packaging and documentation P13.1* Product packaging material type(s): carton weight (kg): 1.48 Product packaging material type(s): EPE weight (kg): 0.83 Product packaging material type(s): weight (kg): P13.2* Product plackaging material type(s): weight (kg): P13.3* Specify media for user and product documentation (tick box): Electronic Paper user and product documentation (tick box): Electronic Paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0% (Japan only 100%) P14 Additional information (See Note B4) NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.	P10.5			TVOC _			
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	P9	See Ene	rgy Star Qualified Notebooks & Tablet Computers for the latest information:	o&pgw_code=C	0		

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

Lenovo ErP Lot3 Information Sheet

- Workstation/Server -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

Products scope of this sheet:

Workstation, mobile workstation, desktop thin client, small-scale server and computer server

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	ThinkStation P510	Logo	
Model Number	30B4,30B5	Lenovo	
Issue Date	2016-4-26	Lei 10 VO.	
Additional information	ENERGY STAR® Qualified; EPEAT GOLD Rating; GREENGUARD Certified		

year of manufacture:		Available on prod label
internal/external power supply efficiency:		
10% 87.41% 20% 91.24% 5	0% 92.13% 100% 89.67% Average 91.02% or level:	
test parameters for measureme — test voltage in V and frequen — total harmonic distortion of th — information and documentation	cy in Hz	ng:
Test voltage in V and frequency Total harmonic distortion of the Information and documentation		
5.7-4 Equipment and Fixture	1. AC Power Source : Chroma 6530 2. Power Meter: YOKOGAWA WT210	
	Connect a power meter to variable AC power source. Connect power cord of system DUT to the power meter. Input Power Measurement	
5.7-5 Test Setup	AC Power Source Power Meter	System DUT
maximum power (Watts) 475.4		
idle state power (Watts)		210.3
 sleep mode power (Watts)		10.102
off mode power (Watts)		0.364
the measurement methodology used to determine information mentioned in points (e): 80 PLUS test method		
the measurement methodology	used to determine information mentioned in maximum, idle, sleep, o	ff mode power as