

		Material Composition Declaration Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.		This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.							
1752-2 1.1		IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x		Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					
Supplier Information											
Company Name * National Semiconductor		Company Unique ID NATSEMI		Unique ID Authority 04-147-2986		Response Date * 01-18-2012		Response Document ID			
Contact Name * Lorena Dudman		Title - Contact Product Stewardship Eng.		Phone - Contact * 1-408-721-8180		Email - Contact * Green.Project@nsc.com					
Authorized Representative * Lorena Dudman		Title - Representative Product Stewardship Eng.		Phone - Representative * 1-408-721-8180		Email - Representative * Green.Project@nsc.com		Supplier Comments or URL for Additional Information http://www.national.com/analog/quality/green			
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
		DS90C032W-QMLV		DS90C032W-QMLV		01-18-2012			508.28	mg	Each
Alternate Recommendation							Alternate Item Comments				
Manufacturing Process Information											
Terminal Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature		Number of Reflow Cycles	
SnPb		Alloy 42		1		NA C		NA seconds		NA	
Comments											
"Does not contain PFOS."											

RoHS Material Type Declaration	Declaration Type * Custom
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RoHS Directive 2002/95/EC	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium
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Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.

1. National products designated "ROHS Compliant" comply with the European Unions Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS"). Certain National products contain lead in RoHS exempt applications 7(a) or 7(c)-I.
2. National products do not contain and are not manufactured with ozone depleting compounds.
3. National products do not contain substances identified by the European Chemical Agency ("ECHA") as substances of very high concern ("SVHC") per REACH Regulation (EC) No 1907/2006. National also complies with use restrictions as stipulated in Annex XVII of REACH.
4. National products are manufactured in conformance with National specifications (SC)CSP-9-111C1 Supplier Environmental Requirements for Materials and Products and (SC)CSP-9-111S2 Banned and Reportable Substances.
5. National's list of banned and reportable substances and management system is based on the current version of the Joint Industrial Guide, JIG-101.

National has taken commercially reasonable steps to provide representative and accurate information but may not have independently verified information provided or conducted chemical analysis of incoming materials. Equivalent compliant materials may have been substituted for those stated herein. Material concentrations are the maximum expected concentration of the substance in the device and may not represent the actual concentration. National and its suppliers consider certain limited information to be confidential and thus CAS numbers and other limited information may not be available for release. National's Standard Terms and Conditions of Sale apply to any issue arising out of or in connection with the information provided herein unless otherwise provided by a written contract signed by both parties.

NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION

RoHS Declaration *	2 - Item(s) contains RoHS restricted substances per the definition above and is not under exemption	Supplier Acceptance *	Accepted
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Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration and above and choose all applicable exemptions.

Declaration Signature

Supplier Signature	 John L. Conn Vice President Quality	John L. Conn Vice President Quality
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Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name	Homogeneous Material	Weight	Unit of Measure	Level	Substance Category	Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance	PPM
	Seal Glass	96.800	mg	Requester		PbO	1317-36-8		58.312	mg		602,400
					Requester	SnO2	18282-10-5		14.423	mg		149,000
					Requester	B2O3	1303-86-2		9.661	mg		99,800
					Requester	SiO2	60676-86-0		4.869	mg		50,300
					Requester	Al2O3	1344-28-1		4.864	mg		50,250
					Requester	MgO	1309-48-4		1.834	mg		18,950
					Requester	TiO2	13463-67-7		1.830	mg		18,900
					Requester	ZnO	1314-13-2		1.007	mg		10,400
	Leadframe	90.000	mg	Requester		Fe	7439-89-6		52.200	mg		580,000
					Requester	Ni	7440-02-0		37.800	mg		420,000
	Ceramic Body	301.999	mg	Requester		Al2O3	1344-28-1		267.481	mg		885,700
					Requester	MnO2	1313-13-9		10.177	mg		33,700
					Requester	SiO2	60676-86-0		8.758	mg		29,000
					Requester	TiO2	13463-67-7		5.617	mg		18,600
					Requester	Cr2O3	1308-38-9		4.198	mg		13,900
					Requester	Fe2O3	1309-37-1		3.401	mg		11,260
					Requester	MgO	1309-48-4		1.579	mg		5,230
					Requester	Co3O4	1308-06-1		0.788	mg		2,610
	Ext. LeadFinish	16.230	mg	Requester		Sn	7440-31-5		10.225	mg		630,000
					Requester	Pb	7439-92-1		6.005	mg		370,000
	Die Attach	1.600	mg	Requester		Ag	7440-22-4		1.280	mg		800,000
					Requester	Lead Borate Glass	65997-18-4		0.320	mg		200,000
	Chip	1.530	mg	Requester		Si	7440-21-3		1.521	mg		994,000

			Requester		Al	7429-90-5		0.009	mg		6,000
Wires	0.122	mg	Requester		Al	7429-90-5		0.121	mg		990,000
			Requester		Si	7440-21-3		0.001	mg		10,000