



DIN 66399

...THE NEW STANDARD FOR
TOP-SECURITY STORAGE OF INFORMATION
ON PAPER AND MODERN DATA CARRIERS

The new principles were drafted by the Information Technology and selected IT Applications Standards Committee (NIA) of the German Institute for Standardisation (DIN), which summarises them as follows:

“Safe disposal in this context means that Data Carriers containing protected information must be destroyed in such a way as to render the reproduction of that information either impossible or as difficult as possible.”



INFORMATION
SECURITY

DIN 66399

FROM CONVENTIONAL FILE
SHREDDING TO THE
DESTRUCTION OF
STATE-OF-THE-ART DATA
CARRIERS, THE INTIMUS®
PRODUCT RANGE HAS
SOLUTIONS FOR ALL

For decades, the destruction of Data Carriers was governed by the standard DIN 32757-1:1995-01, which applied exclusively to paper. With the rapid spread of digital Data Carriers and growing demands for information security, a revision became necessary. The new DIN 66399 takes full account of the current situation, and will supersede the old data protection standard DIN 32757.

- 7 Security Levels
- 3 Protection Categories
- 6 Material Classification

PROTECTION CATEGORIES | SECURITY LEVEL

- Security class 1 - normal need for internal data
- Security class 2 - high demand for confidential data
- Security class 3 - very high demand for particularly secret data

PROTECTION CATEGORIES	SECURITY LEVEL						
	1	2	3	4	5	6	7
1	•	•	•				
2			•	•	•		
3					•	•	•

The information in this flyer is based on the brochure published by the Information Technology and selected IT Applications Standards Committee (NIA) of the German Institute for Standardisation (DIN), dated August 2011

Destruction
<Destruction of Data Carriers> Process of changing the form or state of Data Carriers, generally by shredding, dissolution or incineration

Personal data
Details relating to the personal or material circumstances of an identified or identifiable individual

Data
Representation of facts, concepts, or instructions in a formalised manner suitable for communication, interpretation, or processing by humans or by automatic means [DIN EN 14968:2006-11]

Information
Data with a particular meaning [DIN EN ISO 9000:2005:12]

Data carrier
Object containing data (typical Data Carriers are paper, electronic, magnetic and optical storage media.)

Contract data processing
The collection, processing and use of data by an authorised third party
N.B.: The destruction of Data Carriers also constitutes a form of contract data processing

Data carrier destruction
Process by which the form or state of Data Carriers is changed, generally by crushing, decomposition or incineration, so as to render the recovery of information difficult or impossible

Security level
<Data carrier destruction> Classification of the effort required to reproduce information

Protection requirement
A characteristic of data and information which specifies the necessity of protecting the basic values of confidentiality, integrity or availability against violation according to the damage likely to occur in the event of such a violation
NOTE 1: The protection requirement is divided into the categories normal, high or very high.
NOTE 2: In data destruction terms, a higher protection requirement dictates a higher protection class.

Protection class
Classification of data protection requirement

Responsible party
<Data carrier destruction> Any person or authority which collects, processes or uses data for their own purposes, or instructs others to do so on their behalf

Collection point
Place where Data Carriers are stored in preparation for destruction

Dissolution
Placing the data carrier in a suspension

Intruder alarm
Alarm system for detecting and displaying the presence, intrusion or attempted intrusion of a burglar in monitored premises [DIN EN 50131:2010-02]

Security zone
Area protected according to the appropriate protection class

EXPECTATIONS AND FEASIBILITY

From conventional file shredding to the destruction of state-of-the-art data carriers, the intimus® product range has solutions for all

► Security Levels ► Protection Categories and ► Storage Media

www.intimus.com

OVERVIEW OF CLASS "P": INFORMATION REPRESENTATION *original Size* (PAPER, FILM, PRINTING FORMS, ETC.)

Compare EURO standard EN 15713 – levels: Levels 1, 2 and 3 are below level 1 of DIN 66399

DIN 66399	Classification of Data Carriers according to DIN 66399 Destruction of Data Carrier in such a way ...	Protection class DIN 66399	Particle sizes according to DIN 66399	Permissible tolerances	
P-1	... that the data on it can be reproduced without special tools or skills but not without a certain amount of time expenditure <i>Recommended e.g. for Data Carriers containing general data which needs to be rendered illegible.</i>	1	Material particle area max. 2,000 mm ² or strip width max. 12.0 mm strip length unlimited	10% of the material may exceed the required material particle area, but must be a maximum size of 3,800 mm ²	4
P-2	... that the data on it can be reproduced with tools and only with a certain degree of effort <i>Recommended e.g. for Data Carriers containing internal data which needs to be rendered illegible</i>	1	Material particle area max. 800 mm ² or strip width max. 6.0 mm strip length unlimited	10% of the material may exceed the required material particle area, but must be a maximum size of 2,000 mm ²	5
P-3	... that the data on it can be reproduced only with considerable effort (personnel, tools, time) <i>Recommended e.g. for Data Carriers containing sensitive and confidential data</i>	1 + 2	Material particle area max. 320 mm ² or strip width max. 2.0 mm strip length unlimited	10% of the material may exceed the required material particle area, but must be a maximum size of 800 mm ²	6
P-4	...that the data on it can only be reproduced using non commercially available or specially designed devices <i>Recommended e.g. for Data Carriers containing highly sensitive and confidential data</i>	2 + 3	Material particle area max. 160 mm ² and for regular particles: max. strip width 6.0 mm	10% of the material may exceed the required material particle area, but must be a maximum size of 480 mm ²	Not defined
P-5	... that the data on it is unlikely to be reproduced given the current level of technology <i>Recommended e.g. for Data Carriers containing data which needs to be kept secret</i>	2 + 3	Material particle area max. 30 mm ² and for regular particles: max. strip width 2.0 mm	10% of the material may exceed the required material particle area, but must be a maximum size of 90 mm ²	Not defined
P-6	... that the data on it is impossible to reproduce given the current level of technology <i>Recommended e.g. for Data Carriers containing data which needs to be kept secret, if exceptionally high security standards are required.</i>	3	Material particle area max. 10 mm ² and for regular particles: max. strip width 1.0 mm	10% of the material may exceed the required material particle area, but must be a maximum size of 30 mm ²	Not defined
P-7	... that the data on it is impossible to reproduce given the current level of science and technology <i>Recommended for Data Carriers containing data which needs to be kept top secret, if maximum security standards are required.</i>	3	Material particle area max. 5 mm ² and for regular particles: max. strip width 1.0 mm or suspension with particle area max. 5 mm ² or reduced to ash with material particle area max. 5 mm ²	No tolerances permissible	Not defined

OVERVIEW OF OTHER MATERIAL CLASSES

Class Level	State, Shape and Size after Destruction			
P –	Information Representation <i>original Size</i> (Paper, Film, Printing Forms, etc.)			
	see table			
F –	Information Representation <i>reduced</i> (Film/Foil, etc.)			
F-1	Material particle area	max.	160 mm ²	max. 480 mm ²
F-2	- - -	max.	30 mm ²	max. 90 mm ²
F-3	- - -	max.	10 mm ²	max. 30 mm ²
F-4	- - -	max.	2.5 mm ²	max. 7.5 mm ²
F-5	- - -	max.	1.0 mm ²	max. 3 mm ²
F-6	- - -	max.	0.5 mm ² or reduced to ash max. 0.5 mm ²	max. 1.5 mm ²
F-7	- - -	max.	0.2 mm ² or reduced to ash max. 0.2 mm ² or suspension	no tolerances permitted
O –	Information Representation <i>on optical Data Carriers</i> (CDs/DVDs, etc.)			
O-1	Material particle area	max.	2,000 mm ²	max. 3,800 mm ²
O-2	- - -	max.	800 mm ²	max. 2,000 mm ²
O-3	- - -	max.	160 mm ²	max. 480 mm ²
O-4	- - -	max.	30 mm ²	max. 90 mm ²
O-5	- - -	max.	10 mm ²	max. 30 mm ²
O-6	- - -	max.	5 mm ² or reduced to ash max. 5 mm ² or melted compound	max. 15 mm ²
O-7	- - -	max.	0.2 mm ² or reduced to ash max. 0.2 mm ² or melted compound	max. 0.6 mm ²
T –	Information Representation <i>on magnetic Data Carriers</i> (Floppy Disks, ID Cards, Magnetic Tape Cassettes, etc.)			
T-1	Medium mechanically inoperable			–
T-2	Medium disintegrated and material particle area ≤ 2,000 mm ²			max. 3,800 mm ²
T-3	Material particle area ≤ 320 mm ²			max. 800 mm ²
T-4	- - - ≤ 160 mm ²			max. 480 mm ²
T-5	- - - ≤ 30 mm ²			max. 90 mm ²
T-6	- - - ≤ 10 mm ²			max. 30 mm ²
T-7	- - - max. 2.5 mm ² or reduced to ash max. 2.5 mm ² or melted compound			max. 7.5 mm ²
H –	Information Representation <i>on Hard Disks with magnetic Data Carriers</i> (Hard Disks)			
H-1	Hard disk mechanically / electronically inoperable			–
H-2	Data carrier damaged			–
H-3	Data carrier deformed			–
H-4	Data carrier disintegrated and deformed and material particle area	max.	2,000 mm ²	max. 3,800 mm ²
H-5	- - -	max.	320 mm ²	max. 800 mm ²
H-6	- - -	max.	10 mm ²	max. 30 mm ²
H-7	Data carrier disintegrated and deformed and material particle area or heated above Curie Temperature	max.	5 mm ²	max. 15 mm ²
E –	Information Representation <i>on electronic Data Carriers</i> (Memory Sticks, Chip Cards, Semiconductor Hard Drives Mobile Communication Media, etc.)			
E-1	Medium mechanically / electronically inoperable			–
E-2	Medium disintegrated			–
E-3	Medium disintegrated and material particle area	max.	160 mm ²	max. 480 mm ²
E-4	Data carrier (chip) disintegrated	max.	30 mm ²	max. 90 mm ²
E-5	Data carrier (chip) variously destroyed and material particle area	max.	10 mm ²	max. 30 mm ²
E-6	Data carrier (chip) variously destroyed and material particle area or reduced to ash	max.	1 mm ²	max. 3 mm ²
E-7	Data carrier (chip) variously destroyed and material particle area or reduced to ash	max.	0.5 mm ²	max. 1.5 mm ²

permissible Tolerance:
10 % of Material
but no larger than ...

CLASSIFICATION OF PRODUCT RANGE BY CLASS AND LEVEL

- P- Information Representation *original Size* – Paper, Film, Printing Forms, etc.
- F- Information Representation *reduced* – Film/Foil, etc.
- O- Information Representation *on optical Data Carriers* – CDs/DVDs, etc.
- T- Information Representation *on magnetic Data Carriers* – Floppy Disks, ID Cards, magnetic Cassettes, etc.
- H- Information Representation *on Hard Disks with magnetic Data Carriers* – Hard Disks
- E- Information Representation *on electronic Data Carriers* – Memory Sticks, Chip Cards, Semiconductor Hard Drives, Mobile Communication Media, etc.

DIN 66399

INTIMUS®OFFICE

Class	P	F	O	T	H	E
Model	mm	Security Level				
1000 S	4	2	–	–	2*	–
C	3,8 x 48	3	1	2	3*	–
2000 S	4	2	–	1	2*	–
C	3,8 x 48	3	1	2	3*	–
3000 S	4	2	–	1	2*	–
C	3,8 x 48	3	1	2	3*	–
Confidential	2 x 8	5	2	1	2*	–
21 CP4	4 x 39	4	–	3	4	–
29 CP4	4 x 39	4	–	3	4	–
45 SC2	3,8	2	–	1	2*	–
CC3	3,8 x 30	4	1	1	2*	–
CC4	1,9 x 15	5	2	1	2*	–
60 SC2	3,8	2	–	1	2*	–
CC3	3,8 x 30	4	1	1	2*	–
CC4	1,9 x 15	5	2	1	2*	–
100 SP2	3,8	2	–	2	2*	–
CP4	3,8 x 36	4	1	3	4*	–
CP5	1,9 x 15	5	2	–	–	–
120 SC2	5,8	2	–	1	2*	–
SC2	3,8	2	–	1	2*	–
CC3	3,8 x 36	4	1	1	2*	–
CC4	1,9 x 15	5	2	1	2*	–
130 SP2	3,8	2	–	2	2*	–
CP4	3,8 x 36	4	1	–	4*	–
CP5	1,9 x 15	5	2	–	–	–
175 SC2	5,8	2	–	2	2*	–
CC3	4 x 40	4	1	–	4*	– 3
CC4	1,9 x 15	5	2	–	5*	– 4
802 CC4	1,9 x 15	5	2	–	–	–
852 CC3	3,8 x 40	4	1	3	4	–
852 VS	3,8 x 40	4	1	3	4	–

* only floppy disks / ID cards
** only SSD-HDD
1 with balling press 1 level higher

■ certain small format items – such as SSD – may go through the cutting mechanism *undestroyed*

INTIMUS®HIGH SECURITY

Class	P	F	O	T	H	E
Model	mm	Security Level				
34 CP7	1 x 5	7	–	–	–	–
45 CC6	0,8 x 4,5	7	3	–	–	–
60 CC6	0,8 x 4,5	7	3	–	–	–
100 CP6	0,8 x 12	6	3	–	–	–
CP7	0,8 x 4,5	7	3	–	–	–
120 CC5	0,8 x 12	6	3	–	–	–
CC6	0,8 x 4,5	7	3	–	–	–
175 CC5	0,8 x 12	6	3	–	–	–
CC6	0,8 x 4,5	7	3	–	–	–
Hybrid	0,8 x 4,5	7	–	6	–	–
007 SE	0,7 x 9,5	6	–	–	–	–
SF	0,8 x 4,5	7	3	–	–	–
SL	0,65 x 1,5-5	7	–	–	–	–

INTIMUS®IT SECURITY

Class	P	F	O	T	H	E
Model / System	Security Level					
240 Crusher	–	–	–	–	3	–
360 Destroyer	–	–	–	–	3	1**
FlashEx	–	–	3	4	–	3
VZ Multi-Media 150	–	–	1	2	4	2

INTIMUS®INDUSTRIALS

Class	P	F	O	T	H	E
Model	mm	Security Level				
VZ / VZM Large Shredder Systems						
17.00	6 x 15-50	3	–	3	3*	– 2
18.00	11,8 x 15-55	2*	–	2	2*	– 2
19.00	11,8 x 15-55	2*	–	2	2*	– 2
20.00 TWIN	11,8 x 15-55	2*	–	2	2*	– 2
VZ Spezial Shredders						
28/35	20	–	–	1	2	– 2
35/35	20	–	–	1	2	– 2
38/50	30	–	–	1	1	– 2

INTIMUS®INDUSTRIALS

Class	P	F	O	T	H	E
Model	mm	Security Level				
Large Shredders Solo Versions						
14.95 S	11,8	1	–	1	2*	– 2
	5,8	2	–	2	2*	– 2
	6 x 50	3	–	3	3*	– 2
	3,8 x 40	4	1	3	4*	– 3
16.50 SmartShred	10 x 70	2	–	2	2*	– 2
	6 x 50	3	–	3	3*	– 2
Shredder/Baler Combinations						
14.87	6 x 50	3	–	3	3*	– 2
	3,8 x 40	4	1	3	4**	– 3
16.86 SmartShred	10 x 70	2*	–	2	2*	– 2
	6 x 50	3*	–	3	3*	– 2
High Security Shredder/Baler Combinations						
VZ 14.00/4	2 x 15	5	2	–	–	–

INTIMUS®INDUSTRIALS

Class	P	F	O	T	H	E
Model	Security Level					
Disintegratoren						
with screen	D00	3	–	3	3	– 2
	C20	4	1	4	4	– 3
	B50	5	2	5	5	– 4
	B40	6	3	5	6	– 5
	B35	7	3	6	6	– 5
	B20	7+	4	6	7	– 5
HDD Granulator						
with screen	D00	–	–	2	2	4 2
	C40	–	–	3	3	5 2
	C20	–	–	4	4	5 3
	C00	–	–	4	4	5 3
	B80	–	–	4	4	5 3
	B60	–	–	5	5	5 4