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# SUMMARY OF THE TYPES OF PROTECTIONS

## PHYSICAL-CHEMICAL PROTECTION

- Protection **a** : contact protection
- Protection **a18** : protection by vapour phase corrosion inhibitors
- Protection **ba18** : protection by a film impregnated with a vapour phase corrosion inhibitor
- Protection **b** : impermeability to runoff water
- Protection **c** : protection by dehydrated vapour-tight barrier
- Protection **e** : temperature (thermal insulation, thermal shocks, solar irradiation)
- Protection **f** : Pressure – positive and negative pressure
- Protection **g** : protection against mould, insects and rodents
- Protection **h** : protection against electrostatic, electromagnetic or magnetic phenomena
- Protection **i** : inert gases
- Protection **ci** : protection par barrière étanche sous atmosphère déshydratée
- Protection **j** : protection against fire - fireproofing

## MECHANICAL PROTECTION

- Protection **d** : anti-shock and anti-vibration protection

**See the SUMMARY TABLE – EXAMPLES OF METHODS  
in following page.**

# 7.3 SUMMARY TABLE - EXAMPLES OF METHODS



CATEGORIES	PROTECTIONS												
	a	a18	(ba18)	b	c	d	e	f	g	h	i	ci	j
Cradles - Bases	1	1a				1dca							
Bundles and palletizing	2			2ba									
Wooden crates	3				3ca								3ja
Wooden cases and boxes	4		4(ba18)				4eba		4gca				
Packaging in fibreboard carton	5							5fca		5ha			
Packaging other than in wood or fibreboard	6										6ia		
Reels	7								7g				
Container	8												
Covering - Cladding	9				9ca								9cia

7

**N.B.:** This table is not exhaustive.

See the following examples:

**8 3ca:**

Container .....category 8  
 + wooden crates .....category 3  
 + a dehydrated waterproof bag ..... protection c  
 + contact protection on the equipment... protection a

**N.B.:** Wedging the crate inside the container to prevent movement is not codified but must be always carried out.

Where several consolidated packages are packed into a container, a list thereof must be made.

**Example:**

■ 8 3ca, 4ca, 1d, etc.

**9 cia:**

Cladded case ..... category 9  
 + a dehydrated waterproof bag ..... protection c  
 + nitrogen flush ..... protection i  
 + anti-corrosion protection ..... protection a

**4 gca:**

Full sided case ..... catégorie 4  
 + preventive treatment ..... protection g  
 + a dehydrated waterproof bag ..... protection c  
 + anti-corrosion protection ..... protection a

Note that for **curative** treatment NIMP 15 (wood disinfecting) protection "g" is not codified.

Note that for **preventive** treatment (wood protecting) protection "g" is codified in our packaging methods (e.g. xylophene treated, re-usable, varnished wood cases).

The letter "R" added to our methods indicates that our packaging is re-usable.

**6Ria:**

Packaging other than in wood  
 or fibreboard ..... category 6  
 + reusable case ..... R  
 + nitrogen flush ..... protection i  
 + anti-corrosion protection ..... protection a

Example: pressurized, re-usable metal case packed under sealed inert gas conditions.

The "R" is placed after whichever is the reusable element. In the foregoing example, only cases not in wood or cardboard are reusable.

Accordingly, to take the example of 6 d R, as damping is always included for cases other than in wood or cardboard, both the case and the shock absorbent material together are reusable.