

Table of Packing Methods

Packing instruction	Inner packagings	Intermediate packagings	Outer packagings
<p>116</p> <p>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</p> <ol style="list-style-type: none"> For UN 0082, 0241, 0331 and 0332, inner packagings are not necessary if leakproof removable head drums are used as the outer packaging For UN 0082, 0241, 0331 and 0332, inner packagings are not required when the explosive is contained in a material impervious to liquid For UN 0081, inner packagings are not required when contained in rigid plastic which is impervious to nitric esters For UN 0331, inner packagings are not required when bags (5H2), (5H3) or (5H4) are used as outer packagings Bags (5H2 or 5H3) must be used only for UN 0082, 0241, 0331 and 0332 For UN 0081, bags must not be used as outer packagings 	<p>Bags</p> <p>paper, water and oil resistant</p> <p>plastics</p> <p>textile, plastic coated or lined</p> <p>woven plastics, sift-proof</p> <p>Receptacles</p> <p>fibreboard, water resistant</p> <p>metal</p> <p>plastics</p> <p>wood, sift-proof</p> <p>Sheets</p> <p>paper, water resistant</p> <p>paper, waxed</p> <p>plastics</p>	<p>Not necessary</p>	<p>Bags</p> <p>woven plastics (5H1/2/3)</p> <p>paper, multivall, water resistant (5M2)</p> <p>plastics, film (5H4)</p> <p>textile, sift-proof (5L2)</p> <p>textile, water resistant (5L3)</p> <p>Boxes</p> <p>steel (4A)</p> <p>aluminium (4B)</p> <p>wood, natural, ordinary (4C1)</p> <p>natural wood, sift proof walls (4C2)</p> <p>plywood (4D)</p> <p>reconstituted wood (4F)</p> <p>fibreboard (4G)</p> <p>plastics, solid (4H2)</p> <p>Drums</p> <p>steel, removable head (1A2)</p> <p>aluminium, removable head (1B2)</p> <p>plywood (1D)</p> <p>fibre (1G)</p> <p>plastics, removable head (1H2)</p> <p>Jerricans</p> <p>steel, removable head (3A2)</p> <p>plastics, removable head (3H2)</p>
<p>117</p> <p>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</p> <ol style="list-style-type: none"> This packing instruction may only be used for explosives of 0082 when they are mixtures of ammonium nitrate or other inorganic nitrates with other combustible substances which are not explosive ingredients. Such explosives must not contain nitroglycerin, similar liquid organic nitrates, liquid or solid nitrocarbons, or chlorates This packing instruction may only be used for explosives of UN 0241 which consist of water as an essential ingredient and high proportions of ammonium nitrate or other oxidizers, some or all of which are in solution. The other constituents may include hydrocarbons or aluminium powder, but must not include nitro-derivatives such as trinitrotoluene Metal IBCs must not be used for UN 0082 and 0241 Flexible IBCs may only be used for solids 	<p>Not necessary</p>	<p>Not necessary</p>	<p>IBCs</p> <p>metal (11A), (11B), (11N), (21A), (21B), (21N), (31A), (31B), (31N), flexible (13H2), (13H3), (13H4), (13L2), (13L3), (13L4), (13M2), rigid plastics (11H1), (11H2), (21H1), (21H2), (31H1), (31H2), composite (11HZ1), (11HZ2), (21HZ1), (21HZ2), (31HZ1), (31HZ2)</p>
<p>130</p> <p>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</p> <ol style="list-style-type: none"> The following applies to UN 0006, 0009, 0010, 0015, 0016, 0018, 0019, 0034, 0035, 0038, 0039, 0048, 0056, 0137, 0138, 0168, 0169, 0171, 0181, 0182, 0183, 0186, 0221, 0238, 0243, 0244, 0245, 0246, 0254, 0280, 0281, 0286, 0287, 0297, 0299, 0300, 0301, 0303, 0321, 0328, 0329, 0344, 0345 0346, 0347, 0362, 0363, 0370, 0412, 0424, 0425, 0434, 0435, 0436, 0437, 0438, 0451, 0459 and 0488. Large and robust explosives articles, normally intended for military use, without their means of initiation or with their means of initiation containing at least two effective protective features, may be carried unpackaged. When such articles have propelling charges or are self-propelled, their ignition systems must be protected against stimuli encountered during normal conditions of transport. A negative result in Test Series 4 on an unpackaged article indicates that the article can be considered for transport unpackaged. Such unpackaged articles may be fixed to cradles or contained in crates or other suitable handling devices 	<p>Not necessary</p>	<p>Not necessary</p>	<p>Boxes</p> <p>steel (4A)</p> <p>aluminium (4B)</p> <p>wood natural, ordinary (4C1)</p> <p>natural wood, sift proof walls (4C2)</p> <p>plywood (4D)</p> <p>reconstituted wood (4F)</p> <p>fibreboard (4G)</p> <p>plastics, expanded (4H1)</p> <p>plastics, solid (4H2)</p> <p>Drums</p> <p>steel, removable head (1A2)</p> <p>aluminium, removable head (1B2)</p> <p>plywood (1D)</p> <p>fibre (1G)</p> <p>plastics, removable head (1H2)</p>
<p>131</p> <p>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</p> <ol style="list-style-type: none"> For UN 0029, 0267 and 0455, bags and reels may not be used as inner packagings For UN 0030, 0255 and 0456, inner packagings are not required when detonators are packed in pasteboard tubes, or when their leg wires are wound on spools with the caps either placed inside the spool or securely taped to the wire on the spool, so as to restrict freedom of movement of the caps and to protect them from impact forces For UN 0360, 0361 and 0500, detonators are not required to be attached to the safety fuse, metal-clad mild detonating cord, detonating cord, or shock tube. Inner packagings are not required if the packing configuration restricts freedom of movement of the caps and protects them from impact forces 	<p>Bags</p> <p>paper</p> <p>plastics</p> <p>Receptacles</p> <p>fibreboard</p> <p>metal</p> <p>plastics</p> <p>wood</p> <p>Reels</p>	<p>Not necessary</p>	<p>Boxes</p> <p>steel (4A)</p> <p>aluminium (4B)</p> <p>wood, natural, ordinary (4C1)</p> <p>natural wood, sift proof walls (4C2)</p> <p>plywood (4D)</p> <p>reconstituted wood (4F)</p> <p>fibreboard (4G)</p> <p>Drums</p> <p>steel, removable head (1A2)</p> <p>aluminium, removable head (1B2)</p> <p>plywood (1D)</p> <p>fibre (1G)</p> <p>plastics, removable head (1H2)</p>
<p>132(a)</p>	<p>Not necessary</p>	<p>Not necessary</p>	<p>Boxes</p> <p>steel (4A)</p> <p>aluminium (4B)</p> <p>wood, natural, ordinary (4C1)</p> <p>wood, natural, sift proof walls (4C2)</p> <p>plywood (4D)</p> <p>reconstituted wood (4F)</p> <p>fibreboard (4G)</p> <p>plastics, solid (4H2)</p>
<p>132(b)</p>	<p>Receptacles</p> <p>fibreboard</p> <p>metal</p> <p>plastics</p> <p>Sheets</p> <p>paper</p> <p>plastics</p>	<p>Not necessary</p>	<p>Boxes</p> <p>steel (4A)</p> <p>aluminium (4B)</p> <p>wood, natural, ordinary (4C1)</p> <p>wood, natural, sift proof walls (4C2)</p> <p>plywood (4D)</p> <p>reconstituted wood (4F)</p> <p>fibreboard (4G)</p> <p>plastics, solid (4H2)</p>