1971. No. 117 **[C]**

FACTORIES

The Abrasive Wheels Regulations (Northern Ireland) 1971

REGULATIONS, DATED 16TH APRIL 1971, MADE BY THE MINISTRY OF HEALTH AND SOCIAL SERVICES UNDER THE FACTORIES ACT (NORTHERN IRELAND) 1965.

The Ministry of Health and Social Services for Northern Ireland in exercise of powers conferred by sections 18(3), 75 and 179(3) and (4) of the Factories Act (Northern Ireland) 1965(a) and of all other powers enabling it in that behalf, hereby makes the following Regulations of which all, with the exception of Regulation 19, are special Regulations:—

Citation, commencement and revocation

1.—(1) These Regulations may be cited as the Abrasive Wheels Regulations (Northern Ireland) 1971 and shall come into operation on 17th April 1972.

(2) Regulation 13 of the Grinding of Metals Special Regulations (Northern Ireland) 1950(b) is hereby revoked.

Interpretation

2. In these Regulations—

"abrasive wheel" means—

(*a*) a wheel, cylinder, disc or cone which, whether or not any other material is comprised therein, consists of abrasive particles held together by mineral, metallic or organic bonds whether natural or artificial;

(*b*) a mounted wheel or point and a wheel or disc having in either case separate segments of abrasive material;

(*c*) a wheel or disc made in either case of metal, wood, cloth, felt, rubber or paper and having any surface consisting wholly or partly of abrasive material; and

(*d*) a wheel, disc or saw to any surface of any of which is attached a rim or segments consisting in either case of diamond abrasive particles,

and which is, or is intended to be, power driven and which is for use in any grinding or cutting operation;

"approved" means approved for the time being by certificate of the Chief Inspector;

"factory" includes any place to which these Regulations apply;

(a) 1965. c. 20 (N.I.). (b) S.R. & O. (N.I.) 1950, No. 203.

"mounted wheel or point" means a wheel or point consisting in either case of abrasive particles held together by mineral, metallic or organic bonds whether natural or artificial and securely and permanently mounted on the end of a mandrel or quill;

"overhang" means in relation to a mounted wheel or point that part of the mandrel or quill which is exposed between the collet in which the mandrel or quill is held and the part of the abrasive material nearest to the said collet;

"the Act" means the Factories Act (Northern Ireland) 1965.

Application and operation of Regulations

3.—(1) These Regulations, other than Regulation 19, shall apply to any abrasive wheel used for any grinding or cutting operation in factories and any premises, places, processes, operations and works to which the provisions of Part IV of the Act with respect to special Regulations for safety and health are applied by section 121 (which relates to electrical stations), sections 122 (which relates to institutions), section 123 (which relates to certain dock premises and certain warehouses), section 124 (which relates to ships) and section 125 (which relates to building operations and works of engineering construction).

(2) In relation to abrasive wheels, the provisions of these Regulations are in substitution for the provisions of section 15(1) of the Act and accordingly the provisions of that subsection shall not apply in relation to any abrasive wheel.

(3) Regulation 19 shall apply to any abrasive wheel (other than an abrasive wheel of any of the kinds referred to in Regulation 4(1), (4) and (6)) and to any machine of the kind referred to in Regulation 7(1).

(4) Regulation 42 of the Construction (General Provisions) Regulations (Northern Ireland) 1963(c) shall not apply in relation to any abrasive wheel.

Exceptions

4.—(1) Regulations 6, 7, 11(*a*) and (*b*), 12 and 19 shall not apply to any abrasive wheel manufactured of metal, wood, cloth, felt, rubber or paper and having any surface consisting wholly or partly of abrasive material.

(2) Regulations 11(*a*) and (*b*) and 12 shall not apply to any abrasive wheel which consists wholly of abrasive particles held together by natural bonds.

(3) Regulation 6 shall not apply to any abrasive wheel having separate segments of abrasive material.

(4) Regulations 6, 7, 10(1), 11, 12, 18 and 19 shall not apply to any abrasive wheel which does not exceed 235 millimetres in diameter, is manufactured of cloth, felt, rubber or paper and has any surface consisting wholly or partly of abrasive material, when that abrasive wheel is used, or in the case of Regulation 19, is for use, in a portable machine.

(5) Regulations 7, 10(1), 11 and 12 shall not apply to any abrasive wheel when it is used for the grinding of glass.

(6) Regulations 6, 7, 12 and 19 shall not apply to any wheel, disc or saw being a wheel, disc or saw of a kind specified in Regulation 2(*d*).

(c) S.R. & O. (N.I.) 1963, No. 87.

Exemptions

5. The Chief Inspector may (subject to such conditions, if any, as may be specified therein) by certificate in writing (which he may in his discretion revoke at any time) exempt from all or any of the requirements of these Regulations—

(*a*) any particular abrasive wheel or any type of abrasive wheel; or

(*b*) any machine or part of a machine or any class or description of machines or parts of machines; or

(*c*) any operation or process or any class or description of operations or processes,

if he is satisfied that the requirements in respect of which the exemption is granted are impracticable or inappropriate or are not necessary for the protection of persons employed.

Speeds of abrasive wheels

6.—(1) No abrasive wheel having a diameter of more than 55 millimetres shall be taken into use in any factory for the first time in that factory after the coming into operation of these Regulations unless the abrasive wheel or its washer is clearly marked with the maximum permissible speed in revolutions per minute specified by the manufacturer for that abrasive wheel.

(2) No abrasive wheel having a diameter of 55 millimetres or less shall be taken into use in any factory for the first time in that factory after the coming into operation of these Regulations unless there is kept permanently fixed in the room in which grinding is ordinarily carried out with that abrasive wheel a notice clearly stating the maximum permissible speed in revolutions per minute specified by the manufacturer for that abrasive wheel or for abrasive wheels of the class to which that abrasive wheel belongs and, in the case of mounted wheels and points, the overhang permissible at that speed:

Provided that when grinding with such an abrasive wheel is not ordinarily carried out in any one room the notice shall be kept posted at a place and in a position where it may easily be read by persons employed in grinding with that abrasive wheel.

(3) No abrasive wheel shall be operated at a speed in excess of the maximum permissible speed in revolutions per minute specified in accordance with the provisions of this Regulation for that abrasive wheel:

Provided that where the diameter of an abrasive wheel has been reduced its maximum permissible speed may be increased to that speed which bears the same proportion to the maximum permissible speed as the original diameter of the abrasive wheel bears to its reduced diameter.

Speeds of spindles

7.—(1) There shall be securely affixed to every power driven machine having any spindle on which an abrasive wheel is, or is intended to be, mounted a notice specifying—

(*a*) in the case of each such spindle (other than a spindle to which sub-paragraph (*b*) or (*c*) applies) its maximum working speed;

(*b*) in the case of any such spindle for which there are provided arrangements for operating the spindle at more than one specific working speed, each such speed; and