|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ГОСТ 5915-70 : ГАЙКИ ШЕСТИГРАННЫЕ КЛАССА ТОЧНОСТИ В**ГОСТ 5915-70 : ГАЙКИ ШЕСТИГРАННЫЕ КЛАССА ТОЧНОСТИ В**мм**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Номинальный размер резьбы d | 1,6 | 2 | 2,5 | 3 | (3,5) | 4 | 5 | 6 | 8 | 10 | 12 | (14) | 16 | (18) | 20 | (22) | 24 | (27) | 30 | 36 | 42 | 48 |
| Шаг | Крупный | 0,35 | 0,40 | 0,45 | 0,50 | 0,60 | 0,70 | 0,80 | 1 | 1,25 | 1,5 | 1,75 | 2 | 2 | 2,5 | 2,5 | 2,5 | 3 | 3 | 3,5 | 4 | 4,5 | 5 |
| резьбы | Мелкий | - | - | - | - | - | - | - | - | 1 | 1,25 | 1,25 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 2 | 2 | 2 | 3 | 3 | 3 |
| Размер «под ключ» S | 3,2 | 4,0 | 5,0 | 5,5 | 6 | 7 | 8 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 34 | 36 | 41 | 46 | 55 | 65 | 75 |
| Диаметр описанной окружности е, не менее | 3,3 | 4,2 | 5,3 | 5,9 | 6,4 | 7,5 | 8,6 | 10,9 | 14,2 | 17,6 | 19,9 | 22,8 | 26,2 | 29,6 | 33,0 | 37,3 | 39,6 | 45,2 | 50­,9 | 60,8 | 71,3 | 82,6 |
| da | не менее | 1,6 | 2 | 2,5 | 3 | 3,5 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 18 | 20 | 22 | 24 | 27 | 30 | 36 | 42 | 48 |
|   | не более | 1,84 | 2,30 | 2,9 | 3,45 | 4,00 | 4,60 | 5,75 | 6,75 | 8,75 | 10,8 | 13,0 | 15,1 | 17,3 | 19,4 | 21,6 | 23,8 | 25,9 | 29,2 | 32,4 | 38,9 | 45,4 | 51,8 |
| dw, не менее | 2,9 | 3,6 | 4,5 | 5,0 | 5,4 | 6,3 | 7,2 | 9,0 | 11,7 | 14,5 | 16,5 | 19,2 | 22,0 | 24,8 | 27,7 | 31,4 | 33,2 | 38,0 | 42,7 | 51,1 | 59,9 | 69,4 |
| hw | не более | 0,2 | 0,2 | 0,3 | 0,4 | 0,4 | 0,4 | 0,5 | 0,5 | 0,6 | 0,6 | 0,6 | 0,6 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 |
|   | не менее | 0,10 | 0,10 | 0,10 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,25 | 0,25 |
| Высота m | 1,3 | 1,6 | 2,0 | 2,4 | 2,8 | 3,2 | 4,7 | 5,2 | 6,8 | 8,4 | 10,8 | 12,8 | 14,8 | 16,4 | 18 | 19,8 | 21,5 | 23,6 | 25,6 | 31 | 34 | 38 |

 Примечания:*1. Размеры гаек заключенные в скобки применять не рекомендуется.**2. Допускается изготовление гаек с номинальной высотой m не менее 0,8 и предельными отклонениями по ГОСТ 1759.1-82 при условии соблюдения требований ГОСТ 1759.5-87.*Пример условного обозначения гайки исполнения 1 диаметром резьбы d=12 мм с размером «под ключ» S = 18 мм с крупным шагом резьбы с полем допуска 6Н класса прочности 5 без покрытия: *Гайка М12-6Н.5 (S18) ГОСТ 5915-70* То же исполнения 2 с размером «под ключ» S = 19 мм с мелким шагом резьбы с полем допуска 6Н класса прочности 12 из стали марки 40Х с покрытием 01 толщиной 6 мкм: *Гайка 2М12х1,25-6Н.12.40Х.016 ГОСТ 5915-70* Резьба по ГОСТ 24705-81.Не установленные настоящим стандартом допуски размеров отклонений формы и расположения поверхностей и методы контроля - по ГОСТ 1759.1-82.Допустимые дефекты поверхностей гаек и методы контроля - по ГОСТ 1759.3-83.Технические требования - по ГОСТ 1759.0-87. **Масса стальных гаек (исполнение 1) с крупным шагом резьбы**

|  |  |
| --- | --- |
| Номинальный диаметррезьбы d, мм | Теоретическая маса1000 шт. гаек, кг |
| 1,6 | 0,074 |
| 2 | 0,141 |
| 2,5 | 0,272 |
| 3 | 0,377 |
| 3,5 | 0,497 |
| 4 | 0,800 |
| 5 | 1,440 |
| 6 | 2,573 |
| 8 | 5,548 |
| 10 | 10,220 |
| 12 | 15,670 |
| 14 | 25,330 |
| 16 | 37,610 |
| 18 | 53,270 |
| 20 | 71,440 |
| 22 | 103,150 |
| 24 | 122,870 |
| 27 | 175,280 |
| 30 | 242,540 |
| 36 | 416,780 |
| 42 | 623,880 |
| 48 | 956,200 |

 Для определения массы гаек из других материалов величины массы указанные в таблице следует умножить на коэффициенты:*0,356 - для алюминиевого сплава**1,080 - для латуни.* |