

**Filament suggestions for ITER 3D printable model**

|                  | <i>Manufacturer</i> | <i>Filament type</i>         |
|------------------|---------------------|------------------------------|
| Cryostat         | Fillamentum         | PLA Extrafill Metallic grey  |
| Central solenoid | Fillamentum         | PLA Extrafill Green grass    |
| TF coils         | Fillamentum         | PLA Extrafill Sky blue       |
| PF coils         | Fillamentum         | PLA Extrafill Traffic purple |
| Vacuum vessel    | Fillamentum         | PLA Extrafill Vertigo grey   |
| Divertor         | Fillamentum         | PLA Extrafill Signal red     |

**Filament usage(g)**

| Sectors      |          |               |              |  |
|--------------|----------|---------------|--------------|--|
| Type         | Quantity | Amount per pi | Total amount |  |
| 1            | 6        | 84            | 504          |  |
| 2            | 1        | 90            | 90           |  |
| 3            | 1        | 92            | 92           |  |
| 4            | 1        | 85            | 85           |  |
| <b>Total</b> |          |               | <b>771</b>   |  |

| TF coils     |          |            |              |  |
|--------------|----------|------------|--------------|--|
| Type         | Quantity | Amount per | Total amount |  |
| a            | 9        | 52         | 468          |  |
| b            | 9        | 51         | 459          |  |
| <b>Total</b> |          |            | <b>927</b>   |  |

| PF coils     |          |                 |              |  |
|--------------|----------|-----------------|--------------|--|
| Type         | Quantity | Amount per piec | Total amount |  |
| 1            | 1        | 35              | 35           |  |
| 2            | 1        | 54              | 54           |  |
| 3            | 1        | 75              | 75           |  |
| 4            | 1        | 122             | 122          |  |
| 5            | 1        | 74              | 74           |  |
| 6            | 1        | 52              | 52           |  |
| <b>Total</b> |          |                 | <b>412</b>   |  |

| Cryostat     |          |               |              |  |
|--------------|----------|---------------|--------------|--|
| Type         | Quantity | Amount per pi | Total amount |  |
| base         | 1        | 438           | 438          |  |
| lower        | 1        | 338           | 338          |  |
| upper        | 1        | 273           | 273          |  |
| top          | 1        | 475           | 475          |  |
| <b>Total</b> |          |               | <b>1524</b>  |  |

| Divertor     |          |            |              |  |
|--------------|----------|------------|--------------|--|
| Type         | Quantity | Amount per | Total amount |  |
|              | 18       | 7          | 126          |  |
| <b>Total</b> |          |            | <b>126</b>   |  |

| Central solenoid |          |                 |              |  |
|------------------|----------|-----------------|--------------|--|
| Type             | Quantity | Amount per piec | Total amount |  |
|                  | 1        | 105             | 105          |  |
| <b>Total</b>     |          |                 | <b>105</b>   |  |

|                    |             |
|--------------------|-------------|
| <b>Grand Total</b> | <b>3865</b> |
|--------------------|-------------|