Form 3-1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Application for Type Approval of Welding Consumables** | | | | | | | |  |
|  |  |
|  | To: NIPPON KAIJI KYOKAI | | | | Date: | | |  |  |
|  |  | | Branch | | Ref. No.: | | |  |  |
|  |  | |  | |  | | |  |  |
|  | Name of applicant: | |  | | | | | |  |
|  | Address of applicant: | |  | | | | | |  |
|  | Person in charge: | |  | | | | | |  |
|  |  | | Tel: | | |  | Fax: | |  |
|  |  | | E-mail: | | | | | |  |
|  |  | |  | | | | | |  |
|  | We hereby request | | | | | | | |  |
|  | type approval　change in the approved content 　revocation of type approval | | | | | | | |  |
|  | of welding consumables in accordance with Chapter 1, Part 3 of Guidance for The Approval and Type Approval of Materials and Equipment for Marine Use. | | | | | | | |  |
|  |  | | | | | | | |  |
|  | 1. Name of works: |  | |  | | | | |  |
|  | 1. Address of works: |  | |  | | | | |  |
|  | 1. Brand name: | | |  | | | | |  |
|  | *Note 1: In case of submerged arc welding consumables, each brand of core wire and combination flax should be described.*  *Note 2: In the case where backing flux is applied, please select the type of backing flux below.*  *Thermosetting type Non-thermosetting type* | | | | | | | |  |
|  |  |
|  | 1. Material grades: | | |  | | | | |  |
|  | *Note 1: Suffix of shielding gas and hydrogen mark,etc., should be also described.*  *Note 2: In case of welding consumables not specified in Part M of the NK Rules, to be described as “Manufacturer’s Specification.” In this case, chemical composition (if applicable) and mechanical properties are to be provided.* | | | | | | | |  |
|  | 1. Hydrogen Mark: | | | N.A.　H15　H10　H5 | | | | |  |
|  | *Method: Glycerine method Mercury method Gas chromatograph method Hot carrier gas extraction method)* | | | | | | | |  |
|  | 1. Kind/Welding process: | | | *(The intended kind/welding process should be selected from Table 1 on the reverse side)* | | | | |  |
|  | 1. Welding position/Max. Diameter: | | | *(The intended welding position and max. diameter should be described in Table 1 on the reverse side)* | | | | |  |
|  | 1. Current: | | | AC　DCEP　DCEN | | | | |  |
|  | 1. Shielding gas | | |  | | | | |  |
|  | 1. Miscellaneous: | | |  | | | | |  |
|  | 1. Present Approval No./Certificate No. (In case of change/revocation of type approval): | | |  | | | | |  |
|  | 1. Desired date of welding test: | | |  | | | | |  |
|  | 1. Desired date of mechanical test: | | |  | | | | |  |
|  | Note: | | |  | | | | |  |
|  |  | | | | | | | |  |
|  |  | | | | | | | |  |

*(Note)*

*This application should be prepared for each brand of welding consumables (in case of submerged arc welding, application for every combination of wire and flux should be prepared.).*

**Table 1 Kind/Welding process**

|  |  |
| --- | --- |
| Kind | Welding Process |
| Electrodes for manual arc welding for mild steels, high tensile steels and steel for low temperature service  (6.2, Chapter 6, Part M of NK Rules) | Manual welding |
| Gravity welding |
| Automatic welding consumables for mild steels, high tensile steels and steel for low temperature service  [Welding technique：Multi-run (M)　Two-run (T)  Multi-run and two-run (TM)]  (6.3, Chapter 6, Part M of NK Rules) | Submerged arc welding |
| MAG welding |
| MIG welding |
| Self-shielded arc welding |
| Semi-automatic welding consumables for mild steels, high tensile steels and steel for low temperature service  (6.4, Chapter 6, Part M of NK Rules) | MAG welding |
| MIG welding |
| Electro-slag and Electro-gas welding consumables  (6.5, Chapter 6, Part M of NK Rules) | Electro-slag welding |
| Electro-gas welding |
| One side automatic welding consumables for mild steels, high tensile steels and steel for low temperature service  [Welding technique：One-run (SP)　Multi-run (MP)  One-run and multi-run (SMP)]  (6.6, Chapter 6, Part M of NK Rules) | Submerged arc welding |
| MAG welding |
| MIG welding |
| Self-shielded arc welding |
| Welding consumables for stainless steel  (6.7, Chapter 6, Part M of NK Rules) | Manual welding |
| TIG welding (Wire Filler Rod) |
| MIG welding |
| ☐Semi-automatic welding |
| ☐Submerged arc welding |
| ☐Welding consumables for aluminum alloys  (6.8, Chapter 6, Part M of NK Rules) | ☐TIG welding (Wire Filler Rod) |
| ☐MIG welding |
| ☐Plasma arc welding |
| ☐Welding consumables for quenched and tempered high tensile steels for structures  (6.9, Chapter 6, Part M of NK Rules) | Manual welding |
| Gravity welding |
| Submerged arc welding |
| Automatic welding (MAG welding) |
| Automatic welding (MIG welding) |
| Self-shielded arc automatic welding |
| Semi-automatic welding (MAG welding) |
| Semi-automatic welding (MIG welding) |
| ☐Others [Please clarify kind (including applicable parent material and its grades) and welding process] | |

**Table 2 Welding position/Max. diameter**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Butt Weld | | | Fillet Weld | | |
| Position | Max. Diameter | | Position | Max. Diameter | |
| Flat |  | mm | Flat |  | mm |
|  |  |  | Horizontal Vertical |  | mm |
| Horizontal |  | mm | Horizontal |  | mm |
| Overhead |  | mm | Horizontal Overhead |  | mm |
|  |  |  | Overhead |  | mm |
| Vertical Upward |  | mm | Vertical Upward |  | mm |
| Vertical Downward |  | mm | Vertical Downward |  | mm |