



## Product Type Approval Certificate

*Full / ~~Provisional~~ / ~~Restricted~~*

This certificate is issued to:

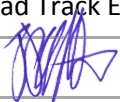
|                                   |  |
|-----------------------------------|--|
| <b>Supplier name and address:</b> | Thermit Australia Pty Ltd ( part of Goldschmidt Thermit Group )<br>170 Somersby Falls Road, Somersby, NSW, 2250, Australia |
|-----------------------------------|--|

In respect of:

|                              |   |
|------------------------------|---|
| <b>Manufacturer:</b>         | Goldschmidt Thermit Group   |
| <b>Place of manufacture:</b> | Goldschmidt Group manufacturing plants in Germany and the USA   |
| <b>Product description:</b>  | Degradable Single Use Crucible,<br>AS60 SKV-Elite Z90 Su welds,<br>AS60 SKV-Elite Z110 Su welds,<br>AS53 SKV-Elite Z90 Su welds,<br>AS50 SKV-Elite Z90 Su welds,<br>AS50 SKV-Elite Z110 Su welds,<br>AS50 SKV-Elite Z100 Su welds,<br>AS47 SKV-Elite Z90 Su welds,<br>AS 47/53 SKV-Elite Z90 Su welds,<br>AS53/60 SKV-Elite Z90 Su Welds. |
| <b>Use approved for:</b>     | Applicable for use on TfNSW heavy rail assets.  |

|                                       |  |
|---------------------------------------|--|
| <p><b>Conditions of approval:</b></p> | <ol style="list-style-type: none"> <li>1. This Product Type Approval Certificate will be subject to review within a period not exceeding 5 years.</li> <li>2. The place of manufacture shall hold International Quality System Certification.</li> <li>3. Should the presence of any previously unidentified defect or condition in service arise, it shall require further collaborative investigation.</li> <li>4. The supplier or manufacturer must advise ASA, TfNSW of any changes made to the product or system that may alter its identification, performance characteristics, form, fit, function, processes required for correct usage or place of manufacture to enable review and revision of this approval.</li> </ol> |
| <p><b>Limitations:</b></p>            | <p>This Type Approval is only valid for applications within TfNSW heavy rail systems.</p>  |

## Evaluating rail transport operator

|                   |   |
|-------------------|---|
| <b>Name:</b>      | John Paff   |
| <b>Position:</b>  | Lead Track Engineer, Asset Standards Authority, Transport for NSW                 |
| <b>Signature:</b> |  |
| <b>Date:</b>      | 6-11-19   |

**Product approval pack reference number:** qA832471

## Annexure 1 Schedule of Certifications

| Title  | Registration Number | Valid Till | Issuing Authority   |
|--|---------------------|------------|---|
| Quality Management System Certificate<br>ISO 9001 : 2015 | 534614 QM15         | 16/09/2020 | DQS GmbH, August-Schanz-StraBe 21, 60433 Frankfurt am Main, Germany |
| Track Product Approval Certificate                       | T022                |            | RailCorp  |
| Track Product Approval Certificate                       | T023                |            | RailCorp  |
| Track Product Approval Certificate                       | T018                |            | RailCorp  |

## Annexure 2 Supporting Documentation

| Title   | Issuing Authority | Author                          | Report Number     |
|---|-------------------|---------------------------------|-------------------|
| SkV-Elite Single Use Welding Process Homologation to AS1085.20          | Thermit Australia | P.S. Radmann, Technical Manager | October 2007      |
| SkV-Elite Single Use Junction Welding Process Homologation to AS1085.20 | Thermit Australia | Thermit Australia               | 08-INV7176-DW1586 |

| <b>Title</b>  | <b>Issuing Authority</b> | <b>Author</b>     | <b>Report Number</b>                                    |
|---|--------------------------|-------------------|---|
| SKv-Elite_Code of_Practice                                      | Thermit Australia        | Thermit Australia | TS_2018.15.03 SKv-Elite_Code_of_Practice                |
| Weld Data Sheet & Accessories                                   | Thermit Australia        | Thermit Australia | TEC_2018.08.23 Weld Data Sheet & Accessories            |
| Recommendations for Storage and Disposal                        | Thermit Australia        | Thermit Australia | TEC_2018.05.09_Recommendations for Storage and Disposal |
| SDS-Thermit Luting Putty  | Thermit Australia        | Thermit Australia | Chemwatch: 02-0876                                      |
| SDS- Thermit Portion Aust                                       | Thermit Australia        | Thermit Australia | Chemwatch: 41926  |
| SDS- Thermit Sand Moulds  | Thermit Australia        | Thermit Australia | Chemwatch: 42022  |
| Quality Manual Of Thermit Australia ISO 9001:2015 Edition: 2017 | Thermit Australia        | Andrew Carter     | QC 2017.05.11_TA Quality Manual 2017 - ISO 9001 2015    |