

Product Type Approval Certificate

Full / Provisional / Restricted

This certificate is issued to:


Supplier name and address:	Thermit Australia Pty Ltd (part of Goldschmidt Thermit Group) 170 Somersby Falls Road, Somersby, NSW, 2250, Australia
-----------------------------------	--

In respect of:

Manufacturer:	Goldschmidt Thermit Group
Place of manufacture:	Goldschmidt Group manufacturing plants in Germany and the USA
Product description:	Degradable Single Use Crucible, AS53 SKV-Elite Z110 Su welds,
Use approved for:	Trial use of AS53 SKV-Elite Z110 Su welds on TfNSW heavy rail assets with the purpose of obtaining full type approval at completion of the trial period
Conditions of approval:	<ol style="list-style-type: none"> 1. This Trial Type Approval Certificate will be subject to review within a period not exceeding 12 months. 2. The place of manufacture shall hold International Quality System Certification. 3. Should the presence of any previously unidentified defect or condition in service arise, it shall require further collaborative investigation. 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. 5. All Trial Type Approvals are issued contingent upon an alternative plan being available to enact in the event that

	<p>trial outcomes differ from those expected. For this reason, the applicant or relevant Project Manager shall have contingency plans available for implementation, to mitigate the risk of any unexpected outcomes arising from this product trial.</p> <ol style="list-style-type: none"> 6. The Sponsor shall ensure the suitability of this product for the intended application, without any recourse or cost implication to TfNSW. 7. Where this product is planned to be installed in the critical zones of special trackwork, the Sponsor shall ensure that a relevant risk assessment process has been followed to confirm product suitability. 8. For validation of product performance and before full Type Approval can be provided, the applicant and sponsor shall complete a report evaluating field testing of this product. This shall be submitted to ASA as part of the application package for full product Type Approval.
<p>Limitations:</p>	<p>This Type Approval is only valid for applications within TfNSW heavy rail systems.</p> <p>Validity of this certificate is for 12 month from the date of issue</p>

Evaluating rail transport operator

Name:	John Paff
Position:	Lead Track Engineer, Asset Standards Authority, Transport for NSW
Signature:	
Date:	08-11-19

Product approval pack reference number: qA879143

Annexure 1 Schedule of Certifications

Title	Registration Number	Valid Till	Issuing Authority
Quality Management System Certificate ISO 9001 : 2015	534614 QM15	16/09/2020	DQS GmbH, August-Schanz-StraBe 21, 60433 Frankfurt am Main, Germany
Certificate of Conformity	SO218469		Thermit Australia
Chemical Analysis Certificate	2895626/1941H		Bureau Veritas Asset Integrity and Reliability Services Pty Ltd, Cardiff, NSW
Slow Bend Test	FS_806-262_TA_QC		Thermit Australia
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
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_Recom mendations 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