

Compliance without compromise! With Oerlikon Metco thorium-free gun parts

The issue

Thorium oxide is added to tungsten electrodes and nozzles to improve arc stability and increase the service life of plasma spray gun parts. However, many governments and regulatory bodies are placing tough restrictions on the transportation, importation, disposal and use of thoriated materials.

Our customers need not worry

Oerlikon Metco has invested heavily into the development of non-thoriated gun parts that have validated life and performance characteristics as good as or better than our traditional thoriated parts.

Five reasons not to worry

- 1. Use your existing spray parameters** with little or no changes
- 2. Comply with upcoming or existing regulations** restricting the use of thoriated parts
- 3. Avoid potential supply disruptions** resulting from the ongoing phase out of thoriated tungsten raw materials
- 4. Avoid slow shipments and long lead times** due to regulations that prevent international air shipment of thoriated tungsten parts
- 5. No need to deal with regulations and high costs** to dispose of thoriated tungsten parts or return them to the point of origin

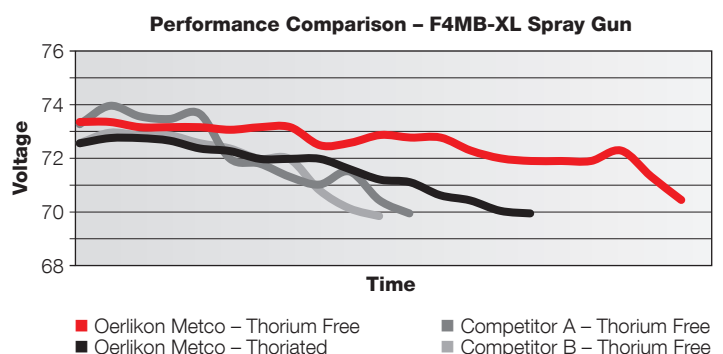
Oerlikon Metco consumable components for your thermal spray gun are always in stock at all of our warehouse locations worldwide.

Not all thorium-free gun parts are equal!

Other suppliers have simply changed the tungsten in plasma gun parts to a thorium-free composition. While these parts comply with regulations, part performance is compromised and service life is reduced. As a result of extensive research and testing, Oerlikon Metco has changed both the tungsten composition and redesigned our parts to ensure performance comparable to the thoriated tungsten counterpart.



**Not all thorium-free parts are created equal.
We are confident you will agree ours are better!**



Always available... Always the highest quality... Always your best value!

Easy to order and easy to identify

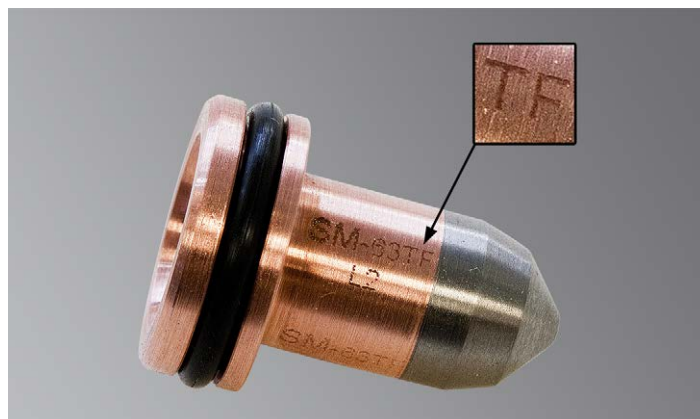
To order

Use the cross-reference table below or tell your Oerlikon Metco customer service representative that you want the non-thoriated version of the part you regularly order and we will do the work for you!

To identify thorium-free parts

Just look for the "TF" stamped on the part. It's that easy!

Did You Know? Our TriplexPro and SimplexPro Spray Guns Have Always Been Completely Thorium-Free!



Parts Stamped "TF" are Thorium-Free.

Spray Gun	Thoriated Part	Old Item No.	Thorium-Free Part	New Item No.
03C, 8MB	03CA-27 Electrode .875 OD X 2.398	1000034	03CA-27 Electrode (TF)	1088086
03C	03CA-82 Cathode Mach 3	1000038	03CA-82 Electrode (TF)	1088088
03C	03CA-9 Cathode Mach 3	1000039	03CA-9 Electrode (TF)	1088089
10MB	10MB163 Electrode Sales Assy	1000105	10MB163 Electrode (TF)	1088091
11MB	11MB25 Electrode Sales Assy	1000231	11M119200 Electrode Assembly (TF)	1084119
3MB	2M11 Assy Electrode 3MB Plasma Gun	1000506	2M119197 Electrode Assembly (TF)	1084121
3MB	3MB29 Electrode 60 Kw	1000745	3MB29 Electrode (TF)	1088092
3MB	3MB63 Electrode Assembly Package	1000759	3MB63 Electrode (TF)	1088093
7MB, 7MT	7M63 Electrode Assy	1001503	7M126253 Electrode Assembly (TF)	1088044
7MST	7M12 Electrode Package	1001465	7M12 Electrode Assembly (TF)	1088045
8MB	8MB57709 Electrode High Power	1035352	8MB Electrode-High Power (TF)	1088090
8MBT	8MBT57111 Electrode Package (GE)	1034261	8MBT Electrode Package (GE) (TF)	1088087
9MB	9MB57850 Nozzle 930W (Tungsten Lined)	1036051	9MB Nozzle 930W (Tungsten Lined-TF)	1088071
9MB	9MB57851 Nozzle 932W (Tungsten Lined)	1036053	9MB Nozzle 932W (Tungsten Lined-TF)	1088072
9MB	9MB57852 Nozzle 933W (Tungsten Lined)	1036052	9MB Nozzle 933W (Tungsten Lined-TF)	1088077
9MB	9MB57889 Nozzle 927W (Tungsten Lined)	1049996	9MB Nozzle 927W (Tungsten Lined-TF)	1088078
9MB	9MB58244 Nozzle 931W (Tungsten Lined)	1049997	9MB Nozzle 931W (Tungsten Lined-TF)	1088079
9MB	9MB58395 Nozzle G-W (Tungsten Lined)	1049998	9MB Nozzle G-W (Tungsten Lined-TF)	1088073
9MB	9MB58396 Nozzle GH-W (Tungsten Lined)	1049999	9MB Nozzle GH-W (Tungsten Lined-TF)	1088074
9MB	9MB63 Electrode Assembly	1001635	9M119198 Electrode Assembly (TF)	1084120
9MB	9MB63-50 Electrode Assembly 50Pc Package	1067310	9MB63-50 Electrode (TF) Assy 50Pc Pkg	1089198
F4	Electrode F4, 3000289	1003400	Electrode F4 Std (TF)	1072006
F4	Electrode F4, P	1061794	Electrode F4 Std (TF)	1072006
F4	Nozzle F4 5mm, 200942	1003442	Nozzle F4 5mm (TF)	1088066
F4	Nozzle F4 6mm, 200059	1003402	Nozzle F4 6mm (TF)	1072007
F4	Nozzle F4 7mm, 200979	1003407	Nozzle F4 7mm (TF)	1088062
F4	Nozzle F4 8mm	1003408	Nozzle F4 8mm (TF)	1088057
F4	Nozzle F4 With Cool.+Tungs. Ø6mm, 200141	1000567	Nozzle F4 With Cool.+Tungs. Ø6mm (TF)	1088047
F4	Nozzle F4 With Cool.+Tungs. Ø7mm, 200808	1003405	Nozzle F4 W/Cool.+Tungst.Ø7mm 200808 (TF)	1088060
F4	Nozzle F4 With Cool.+Tungst. Ø8mm, 200809	1003406	Nozzle F4 W/Cool.+Tungst.Ø8mm 200809 (TF)	1088056
F4	Nozzle,Electrode, O-Ring F4 5mm	1008651	Nozzle,Electrode, O-Ring F4 5mm (TF)	1088067
F4	Nozzle,Electrode, O-Ring F4 6mm	1018851	Nozzle,Electrode, O-Ring F4 6mm (TF)	1088048
F4	Nozzle,Electrode, O-Ring F4 6mm, P	1061796	Nozzle,Electrode, O-Ring F4 6mm (TF)	1088048
F4	Nozzle,Electrode, O-Ring F4 7mm	1003412	Nozzle,Electrode, O-Ring F4 7mm (TF)	1088063
F4	Nozzle,Electrode, O-Ring F4 8mm	1018768	Nozzle,Electrode, O-Ring F4 8mm (TF)	1088058
F4	Nozzle/Electrode/O-Ring Cooling+W.F4-6mm	1018783	Nozzle/Electrode/O-Ring Holes F4-6mm (TF)	1088049
F4	Ø6.00mm Nozzle F 300 293	1003474	F4-6mm -TF Nozzle Short F 300 293 (TF)	1088069
F100	Electrode, F100	1003645	Electrode, F100 (TF)	1091133
F210	Electrode, F210	1003714	Electrode, F210 (TF)	1091854
F220	Electrode, F220	1051677	Electrode, F220 (TF)	1093177
iPro	iPro80216 Electrode Assembly	1061072	iPro119202 Electrode Assembly (TF)	1083820

Thorium-free parts for other Oerlikon Metco plasma spray guns are coming soon!



Information is subject to change without prior notice.

FLY-0010.4 - Thorium-Free Gun Parts

©2018 Oerlikon Metco

www.oerlikon.com/metco
info.metco@oerlikon.com