



BWA-76

1. SCOPE

This specification covers copper nickel tin scrap chemistries acceptable for use in the induction furnaces of Materion Brush. The scrap material is purchased from our customers, distributors, and scrap dealers.

2. PURCHASING INFORMATION

2.1 Material purchased under this specification shall be shipped in containers with the following information clearly visible on the outside of each container.

2.1.1 Name and address of the company providing the material.

2.1.2 Gross, tare and the net weights of each container.

2.1.3 Identification of scrap with Brush Alloy number, and/or CDA specification number.

2.1.4 Materion Brush Purchase Order.

3. CHEMICAL COMPOSITION

All scrap purchased under this specification shall conform to the following composition requirements.

Alloy	MoldMax XL T2 ToughMet 2	C96900 C72900 T3 ToughMet 3 BrushForm 158	C96950	C72700 C96970 BrushForm 96
Ni	8.5 - 9.5	14.5 - 15.5	11.0 - 15.5	8.5 - 9.5
Sn	5.5 - 6.5	7.5 - 8.5	5.8 - 8.5	5.5 - 6.5
Fe	0.05 max	0.05 max	0.05 max	0.05 max
Mn	0.15 - 0.30	0.15 - 0.30	0.15 - 0.30	0.15 - 0.30
Mg	0.02 max	0.02 max	0.02 max	0.02 max
Pb	0.02 max	0.02 max	0.02 max	0.02 max
Si	0.01 max	0.01 max	0.01 max	0.01 max

Al	0.01 max	0.01 max	0.01 max	0.01 max
B	0.01 max	0.01 max	0.01 max	0.01 max
Co	0.01 max	0.01 max	0.01 max	0.01 max
Cr	0.01 max	0.01 max	0.01 max	0.01 max
P	0.01 max	0.01 max	0.01 max	0.01 max
Sb	0.01 max	0.01 max	0.01 max	0.01 max
Te	0.01 max	0.01 max	0.01 max	0.01 max
Zn	0.01 max	0.01 max	0.01 max	0.01 max
Zr	0.01 max	0.01 max	0.01 max	0.01 max

All values in weight percent.

4. CLEANLINESS

4.1 All material purchased under this specification must be dry and free of contamination from other metals, plastics, dirt, oil or grease.

5. SCRAP FORMS

5.1 Scrap purchased under this specification will be classified as one of two forms. These forms are classified as follows:

5.1.1 Solid Scrap

5.1.1.1 Bar ends, punchings, sheet, strip and other solid forms.

5.1.2 Turnings, Borings, Scalpings

5.1.2.1 Coarse turnings, borings and scalpings. Fine turnings and sawing scrap are not acceptable.

5.2 Scrap must be in a form that allows inspection. Compressed scrap such as bales, briquettes, or tubing with closed ends is not acceptable.

6. BASIS OF ACCEPTANCE

6.1 All scrap shipments are subject to and governed by Materion Brush's chemical analysis, inspection after delivery, and mill weighing. Any material failing to meet these requirements and/or Materion Brush's Beryllium Copper Scrap (BCS) Specifications is subject to rejection. In the event that some or all of the material has been rejected, the vendor will be promptly notified and the material held pending final disposition. No fine powder, grindings, or oxides will be accepted.